Service Manual

LCD 显示器维修手册

English version

Brand： **AOC**

Model： n**941S/plus**

编制**editor**	TPV-BJ-朱雨生	2011-11-24
审核 **review**	TPV-BJ-常焕华	2011-11-24

REVISION LIST

Version	Release Date	Revision History	Model	TPV Model No
A00	Nov-24-2011	Initial Release	AOCn941S/plus	T99ANSNYWVA1NNJ T9BENSNYWVA1NNJ T9BANSNDWVA1NNE

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1. LCD Specifications

1.1 Product Features

Monitor	Model	AOC n941S/plus
LCD Panel	Driving system	TFT Color LCD
	Active Display Area	481mm（19inch） diagpnal 408.24mm (W)×255.15mm(H)
	Pixel Pitch	0.2835 mm×0.2835mm
	Display Colors	16.7M Colors
	Max. Resolution	1440 x 900@75Hz
Input	Video	R,G,B Analog Interface，75ohm,0.7V
	Separate Sync.	H/V TTL
	H-Frequency	30kHz—80kHz
	V-Frequency	55Hz--75Hz
	Dot Clock	136.75MHz
	Plug & Play	VESA DDC2B /CI
	Connector	D-Sub 15pin
USB HUB		No
OSD		14 language OSD menu
Power Consumption	ON Mode	<25W
	Power Saving Mode	<0.5W
	Switch OFF	<0.5W
Power Source		90~264VAC,47~63Hz, 1.5A Max supply current
Dimensions(including stand)		456.75mm×375.5mm×149.85mm
Weight (N. W.):		3.5kg
Environmental Considerations		Operating Temp: 0° to 40°C Storage Temp.: -25° to 55°C Operating Humidity : 10% to 85% Altitude: Operating ： 0~ 3658m (0~ 12000 ft) Non-Operating：0~ 12192m (0~ 40000 ft)
Safety		FCC B CCC IEC950CB etc.

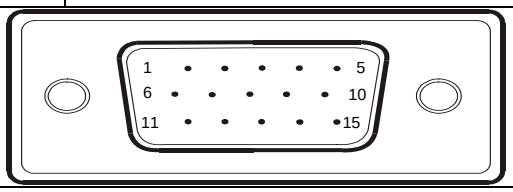
1.2 Factory preset modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
VGA	640×480	31.469kHz	59.94Hz
	640×480	35.00kHz	66.66Hz
	640×350	37.861kHz	72.80Hz
	640 × 480	37.50kHz	75.00Hz
DOS-mode	640 × 480	31.469kHz	70.087Hz
	720 × 400	31.469kHz	70.087Hz
Mac-mode	832 ×624	49.725kHz	74.50Hz
SVGA	800 × 600	35.16kHz	56.25Hz
	800 × 600	37.879kHz	60.317Hz
	800 × 600	48.07kHz	72.188Hz
	800 × 600	46.875kHz	75Hz
XGA	1024 × 768	48.363kHz	60Hz
	1024 × 768	56.476kHz	70.069Hz
	1024 × 768	57.50kHz	72.074Hz
	1024 × 768	60.023kHz	75.029Hz
	1024 × 768	60.241kHz	74.927Hz
WXGA	1440 × 900	55.93kHz	60Hz
	1440 × 900	70.635kHz	75Hz

1.3 Introduction of new feature

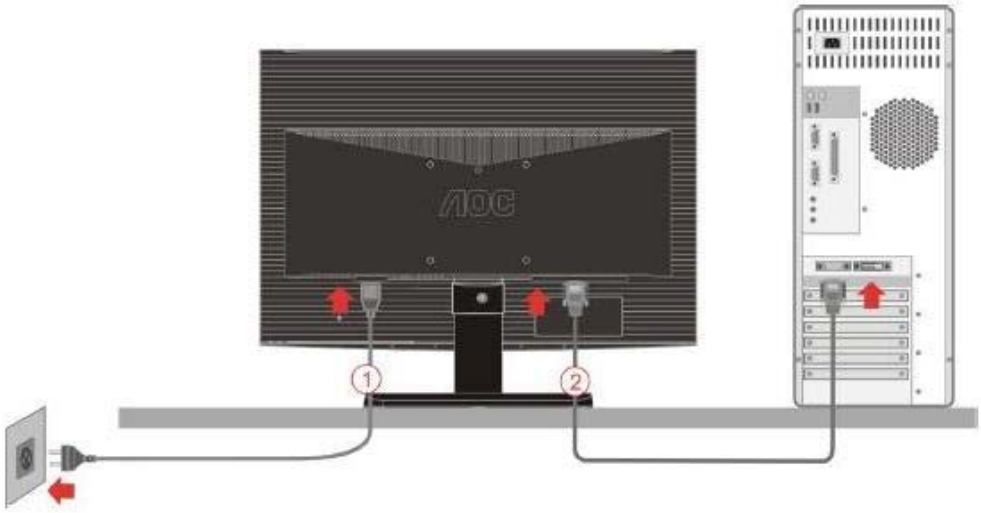
This product is no USB interface. Only VGA Interface.
White Luminance 200cd/m^2(typ)

1.4 VGA 15pin Connector

Pin No.	Description	Pin No.	Description
1.	Red Input	9.	+5VDC
2.	Green Input	10.	Logic GND
3.	Blue Input	11.	N/A
4.	N/A	12.	SDA- DDC-Serial Data
5.	Connection detect	13.	H Sync
6.	Red GND	14.	V Sync
7.	Green GND	15.	SCL- DDC-Serial Clock
8.	Blue GND		
VGA Connector layout			

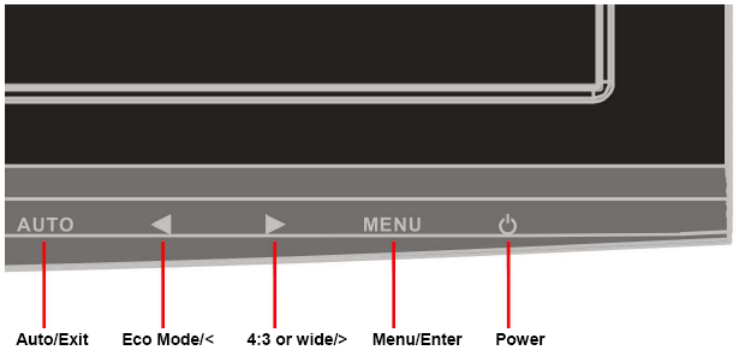
2. Operation instruction

2.1 Connection



- Connect the video cable from the video card of PC to the monitor.
- The power cord should be connected.
- Press the power button to turn on the monitor, the power indicator will light up.

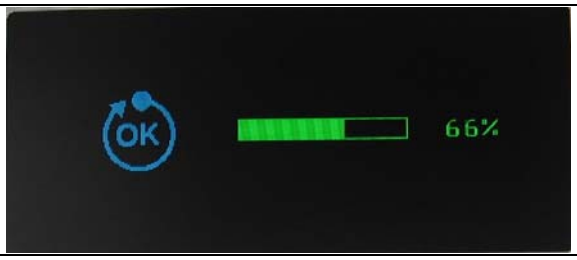
2.2 Control Buttons



	Control	Description
1	Power Button	To turn ON/OFF the moniteor, and power indicator (Green/Blue and Amber/Orange).
2	Menu / Enter	Active main menu while no OSD display,enter next level on main menu or sub menu status, or enter last level on adjustment bar..
		Hotkey ,exit
3	4:3 or wide/ +	Hotkey,Audio volume adjust for VA ,or chang 4:3 or wide image ratio for SA .
		OSD, increase current value of bar, or move to next item of menu
4	ECO mode(DCR)/ -	If there is no OSD,select the ECO mode of brightness and DCR.
		OSD, it will decrease current value of bar, or it will move to last item of menu.
5	Auto / Exit	If there is no any OSD, select video source(DVI/RGB). Press hold to 2s , it is auto configuration.
		Exit current OSD and return to last level.

2.3 OSD User mode adjustment

- Hot key

+	−
AUTO	**Menu+Power**
	

- **OSD Lock Function**

Press “menu” and hold,with turn on “Power”, the OSD menu is locked. Again, the OSD menu is non-locked.
For the OSD menu function ,Please refer to “user manual” .

- OSD Menu a**djustment steps:**

1.Press MENU button to display OSD main menu of as below, Press Left button or Right button may select other main Menu.
2. Press MENU button to adjust items of each main menu.
3. Press Left button or Right button may select item you wish to enter.
4. Press MENU button to enter, and press Left button or Right button to adjust item you select.
5. Press EXIT button may back previous menu.
6. Repeat steps 2-5 to adjust an additional item, or select the EXIT button to return to previous menu.

OSD Setup
AOC
OSD Setup
H.Position 0 50
V.Position 0 50
Timeout 0 120
Transparence 0 0
Language English
AOC

3. Panel Feature

This specification applies to the 19 inch-wide Color TFT-LCD Module M190PW01. The display supports the WXGA+ (1440(H) x 900(V)) screen format and 16.7M colors(RGB 6-bits+HiFRC). All input signals are 2-Channel LVDS interface compatible. This module does not contain an inverter board for backlight.

3.1 General Specifications

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	481.4(18.9")
Active Area	[mm]	408.24 (H) x 255.15(V)
Pixels H x V		1440x3(RGB) x 900
Pixel Pitch	[um]	283.5 (per one triad) ×283.5
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode, Normally White
White Luminance (Center)	[cd/m^2]	200 cd/m^2 (Typ.)
Contrast Ratio		700 (Typ.)
Optical Response Time	[msec]	5ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption (VDD line + CCFL line)	[Watt]	15.5W (Typ) (without inverter, all black pattern)
Weight	[Grams]	1550g (Typ)
Physical Size	[mm]	428.0(W) x 278.0(H) x 11(D) (Typ)
Electrical Interface		Dual channel LVDS
Support Color		16.7M colors (RGB 6-bit + Hi_FRC)
Surface Treatment		Anti-Glare, 3H
Temperature Range Operating Storage (Shipping)	 [°C] [°C]	 0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

3.2 Electrical Absolute Ratings

Item	Symbol	Min	Typ	Max	Unit
Power Supply Voltage	**Vcc**	**-0.3**	**5**	**+6**	**V**
Lamp voltage	**Vblh**	**666**	**700**	**814**	**Vrms**
Lamp Current	**IL**	**3.0**	**6.5**	**8.0**	**mArms**
Lamp Frequency	**FL**	**40**	**50**	**80**	**kHz**

3.3 Electrical Characteristics

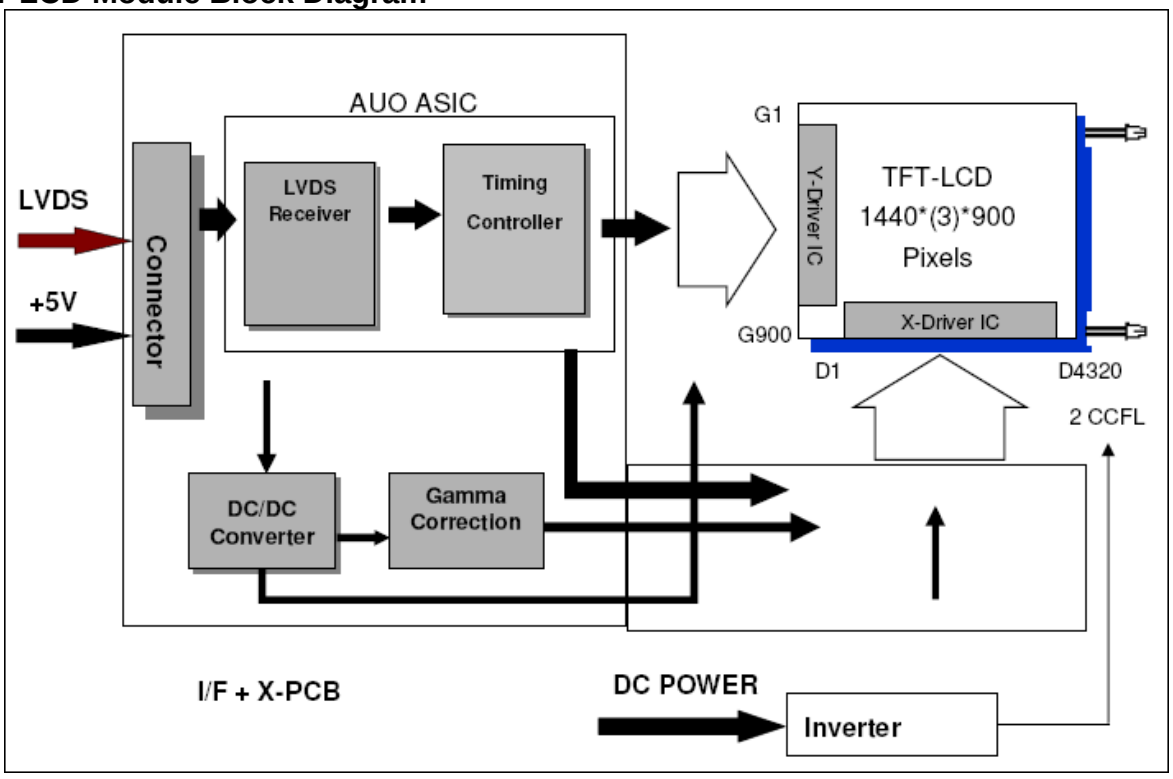
a) TFT LCD module

Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.9	1.1	[A]	VDD= 5.0V, All Black Pattern At 60Hz
PDD	VDD Power	-	4.5	5.5	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz , Note 1
IRush	Inrush Current	-	-	3	[A]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	250	[mV] p-p	VDD=5.0, All black pattern at 60Hz

b) for backlight lamp (2CCFL)

Parameter	Min.	Typ.	Max.	Unit
CCFL Standard Current (ISCFL)	7.0	7.5	8.0	[mA] rms
CCFL Operation Current (IRCFL)	3.0	7.5	8.0	[mA] rms
CCFL Frequency (FCFL)	40	50	80	[KHz]
CCFL Ignition Voltage (ViCFL, Ta= 0℃)	1650	-	-	[Volt] rms
CCFL Ignition Voltage (ViCF, Ta= 25℃)	1250	-	-	[Volt] rms
CCFL Operation Voltage (VCFL)	-	700 (@7.5mA)	850	[Volt] rms
CCFL Power Consumption (PCFL)	-	11	12.1	[Watt]
CCFL Life Time (LTCFL)	40,000	50,000	-	[Hour]

3.4 TFT LCD Module Block Diagram



3.5 LCD module input terminal pin assignment

Pin#	Signal Name	Pin#	Signal Name
1	RxOIN0-	2	RxOIN0+
3	RxOIN1-	4	RxOIN1+
5	RxOIN2-	6	RxOIN2+
7	GND	8	RxOCLKIN-
9	RxOCLKIN+	10	RxOIN3-
11	RxOIN3+	12	RxEIN0-
13	RxEIN0+	14	GND
15	RxEIN1-	16	RxEIN1+
17	GND	18	RxEIN2-
19	RxEIN2+	20	RxECLKIN-
21	RxECLKIN+	22	RxEIN3-
23	RxEIN3+	24	GND
25	NC (for test only. Do not connect)	26	NC (for test only. Do not connect)
27	NC (for test only. Do not connect)	28	+5.0V power supply
29	+5.0V power supply	30	+5.0V power supply

3.6 Optical Specifications

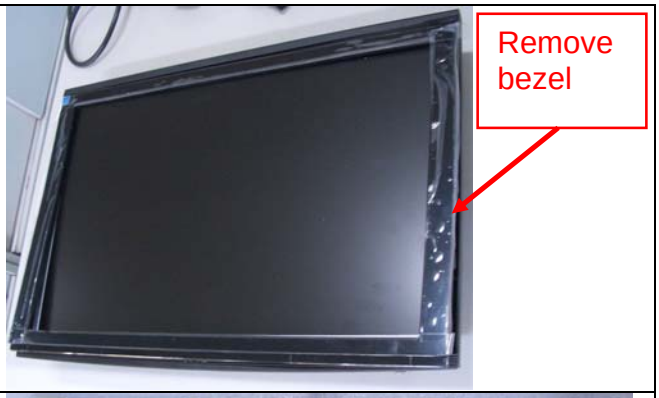
Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	40 40	45 45	- -
		Vertical (Up) CR = 10 (Down)	15 40	20 45	- -
Contrast ratio		Normal Direction	420	700	-
Response Time	[msec]	Raising Time (T_{rR})	-	3.6	5.7
		Falling Time (T_{rF})	-	1.4	2.3
		Raising + Falling	-	5	8
		Gray to Gray(16x16 avg.)	-	-	-
Color / Chromaticity Coordinates (CIE)		Red x	0.617	0.647	0.677
		Red y	0.308	0.338	0.368
		Green x	0.260	0.290	0.320
		Green y	0.570	0.600	0.630
		Blue x	0.115	0.145	0.175
		Blue y	0.037	0.067	0.097
Color Coordinates (CIE) White		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
Central Luminance	[cd/m^2]		160	200	-
Luminance Uniformity	[%]		75	80	-
Crosstalk (in 75 Hz)	[%]				1.5
Flicker	dB				-20

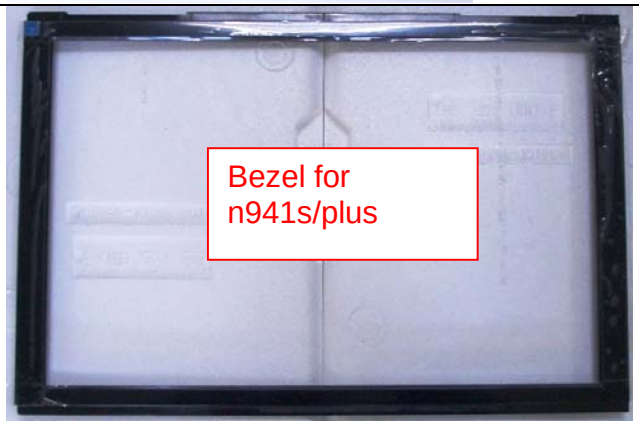
4. Disassembly SOP

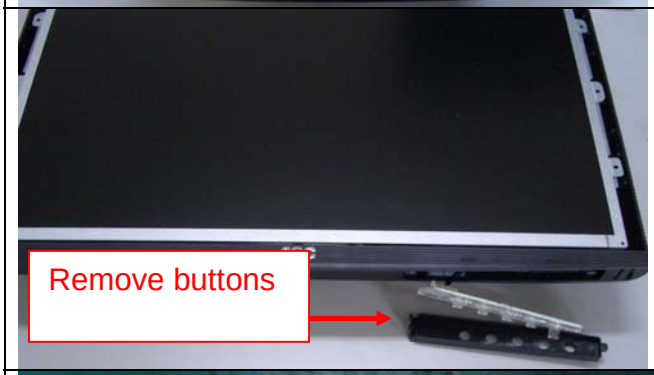
4.1 appropriate tools

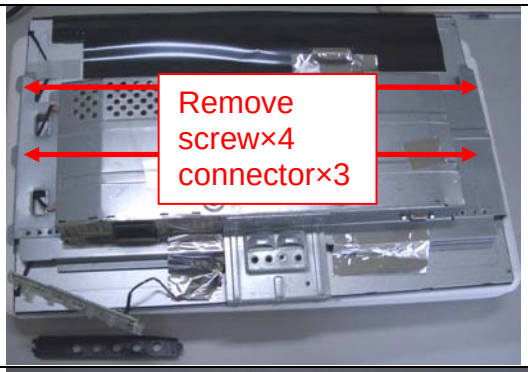
Phillips screwdriver	
spacer screwdriver	
C/D Disassembly Tool	
Gloves or soft cloth	
Prepare soft cloth and sponge as working platform	

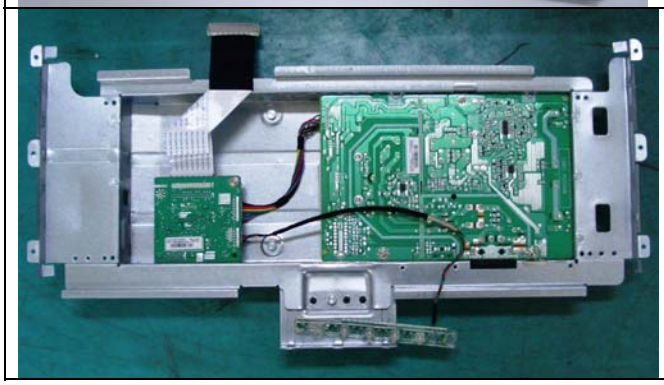
4.2 Disassembly SOP

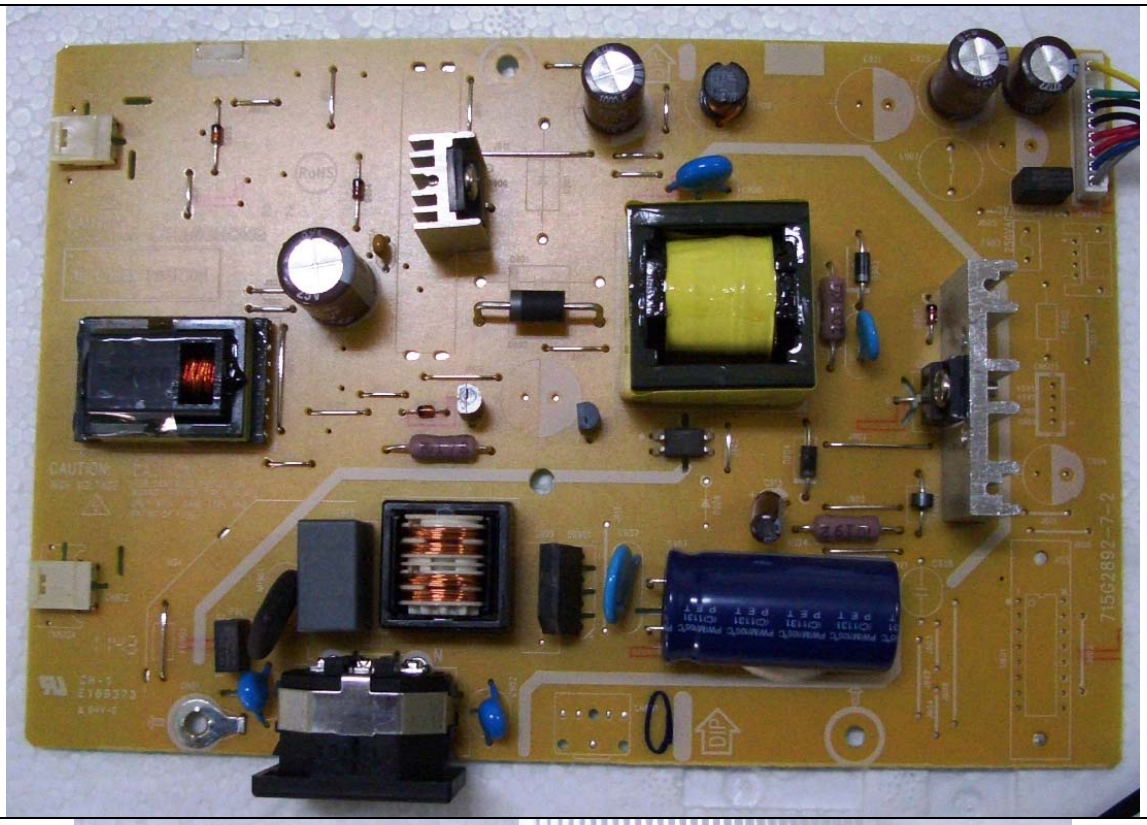

Remove
bezel

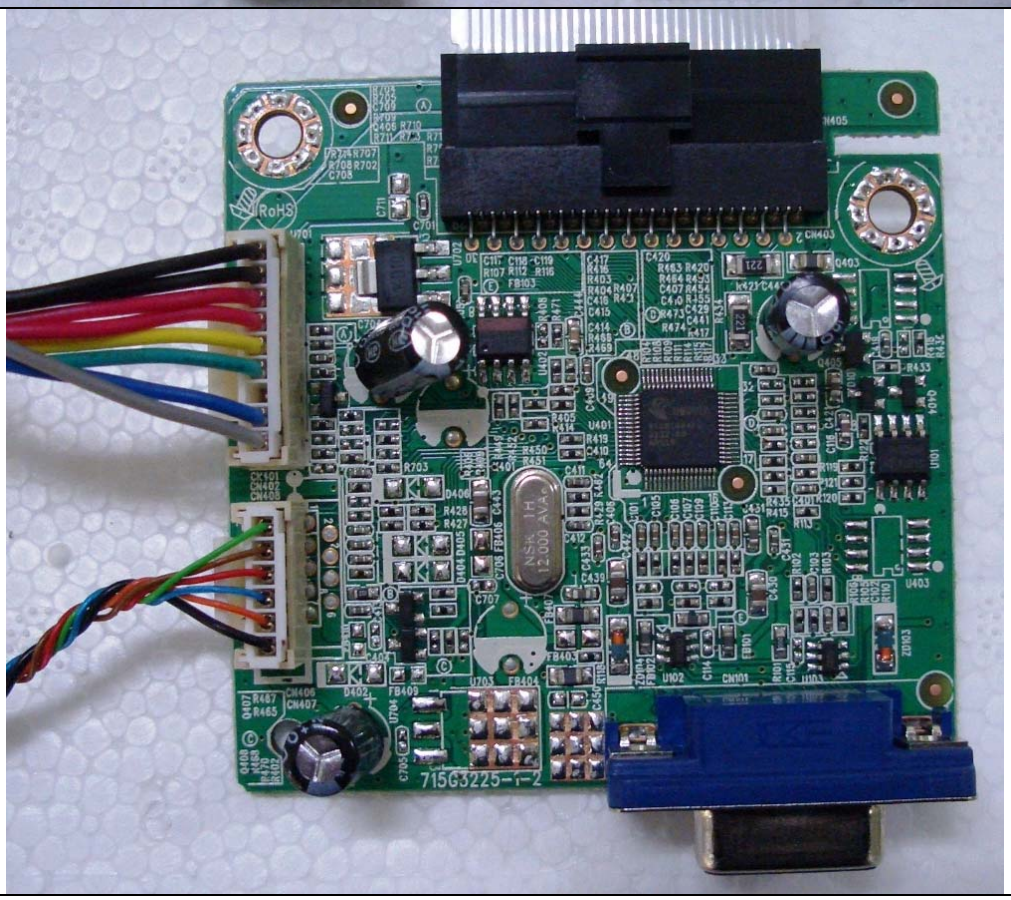

Bezel for
n941s/plus

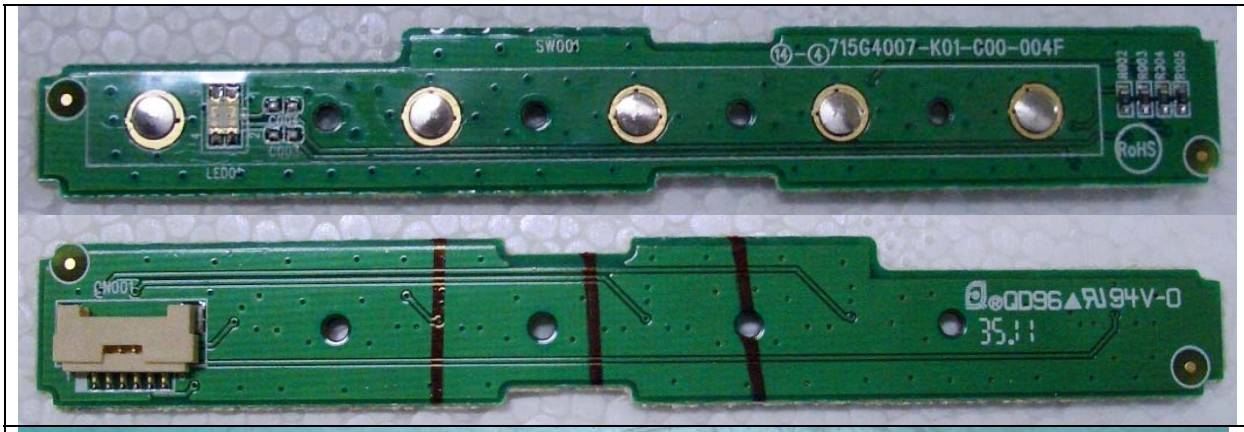

Remove buttons

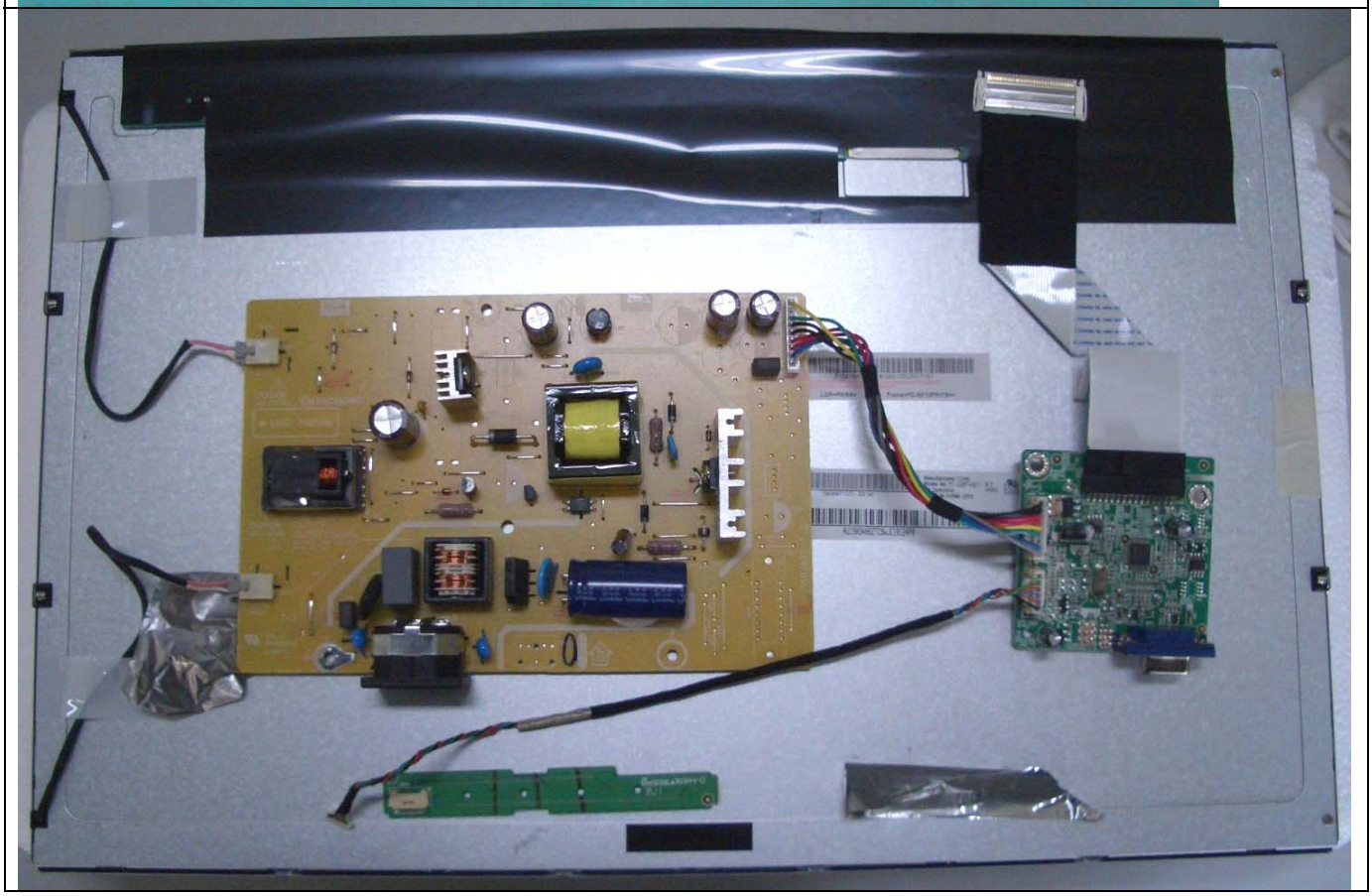

Remove
screw×4
connector×3





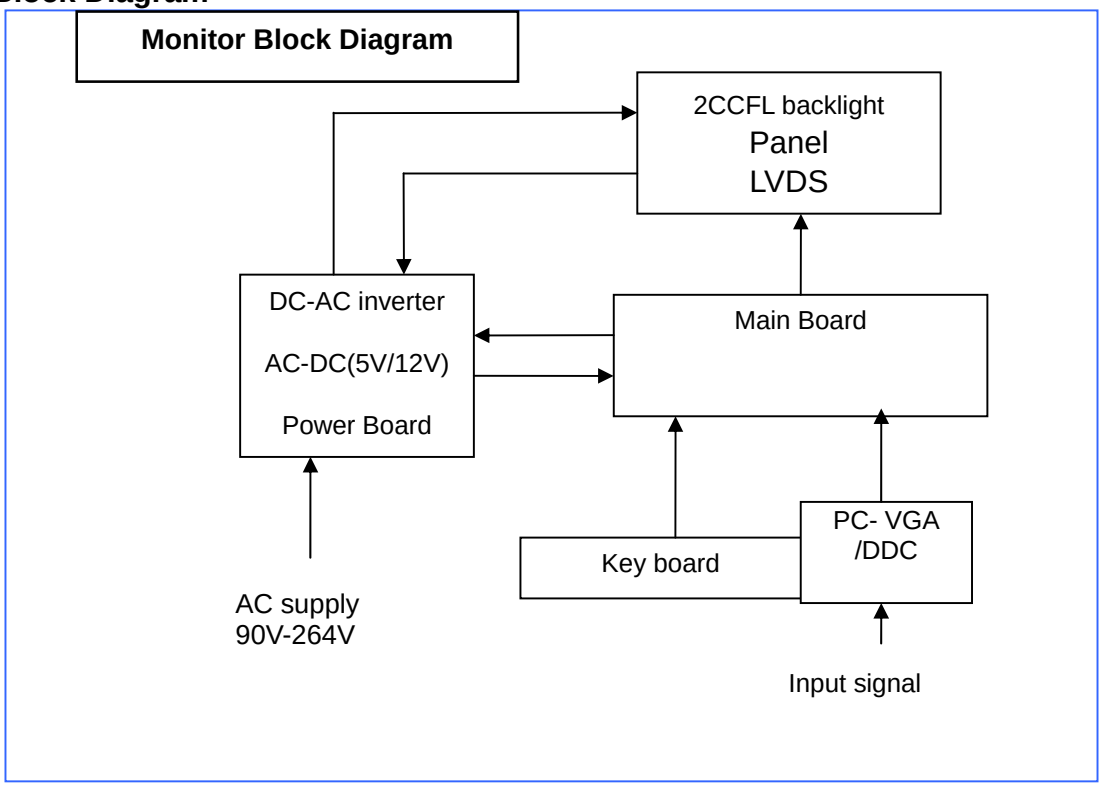



SW001
715G4007-K01-C00-004F
RoHS
CN001
94V-0



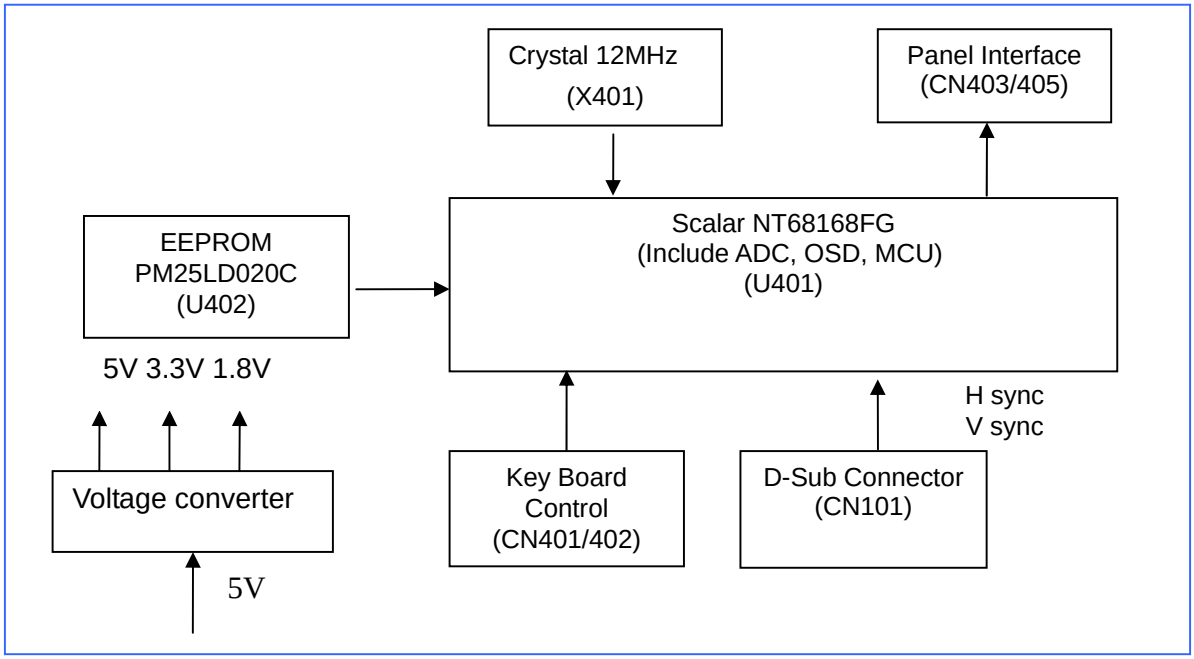
5.Block Diagram

5.1 LCD Block Diagram

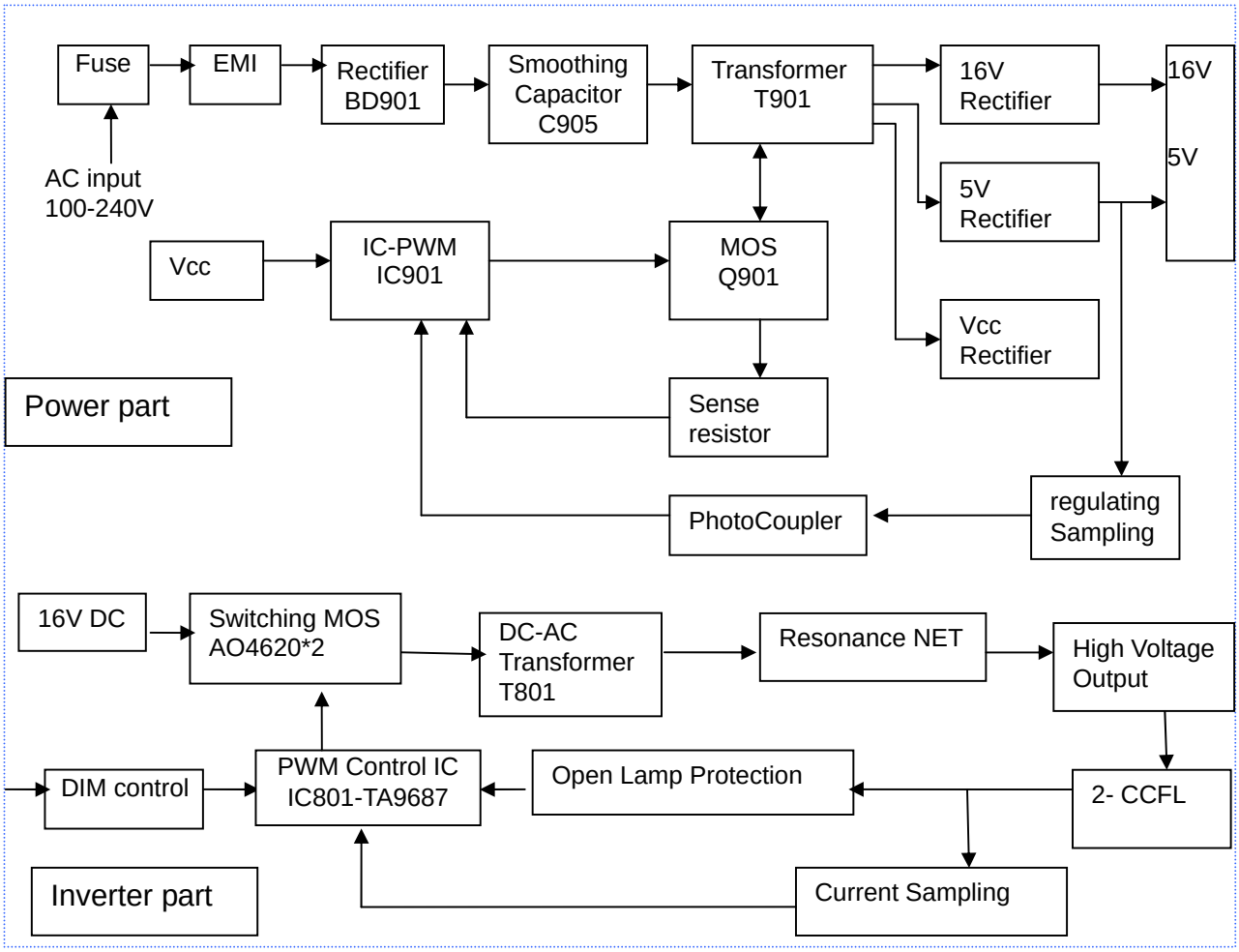


5.2 MainBoard Block Diagram

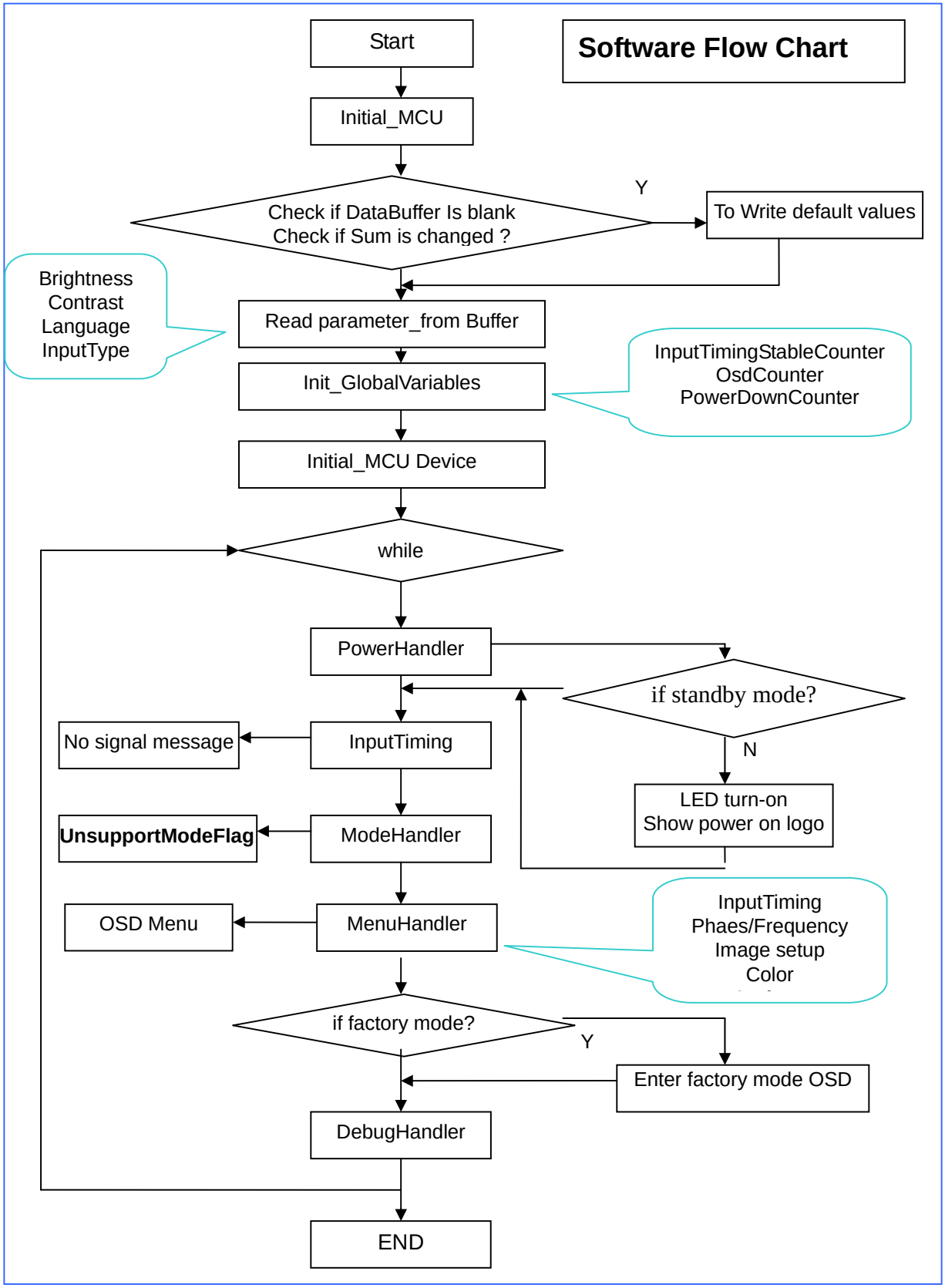
n941S---715G3225



5.3 Power Board Block Diagram - G2892-1-V0C

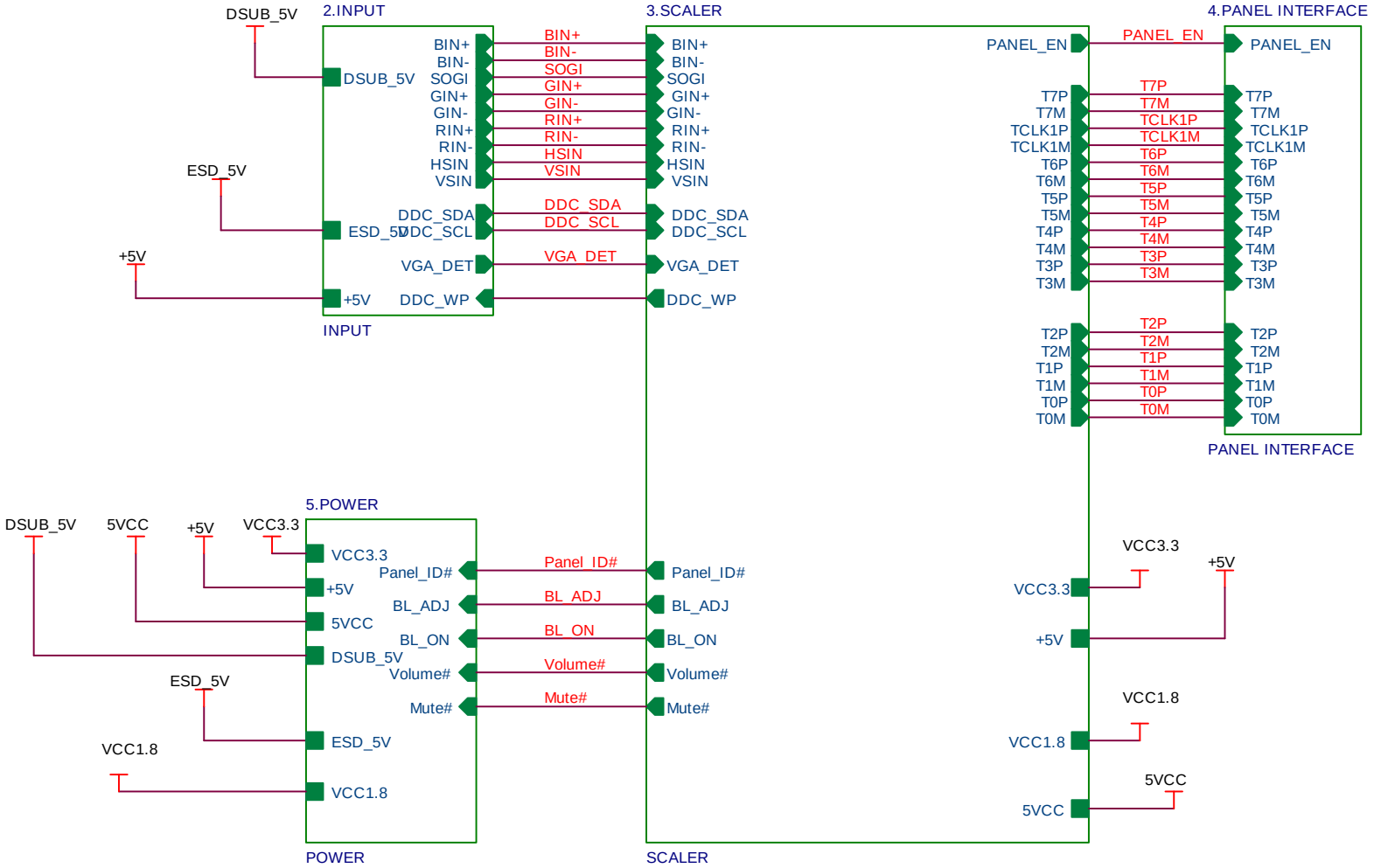


5.4 Software Flow Chart

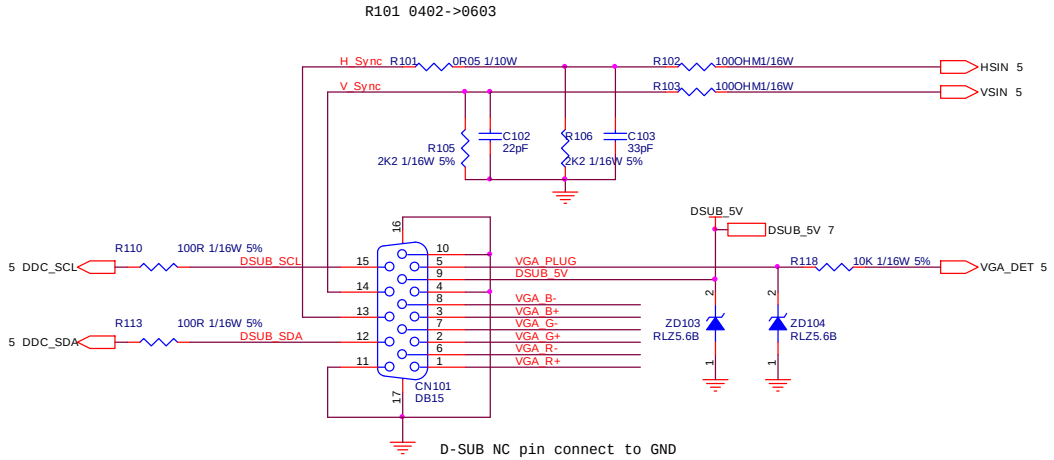


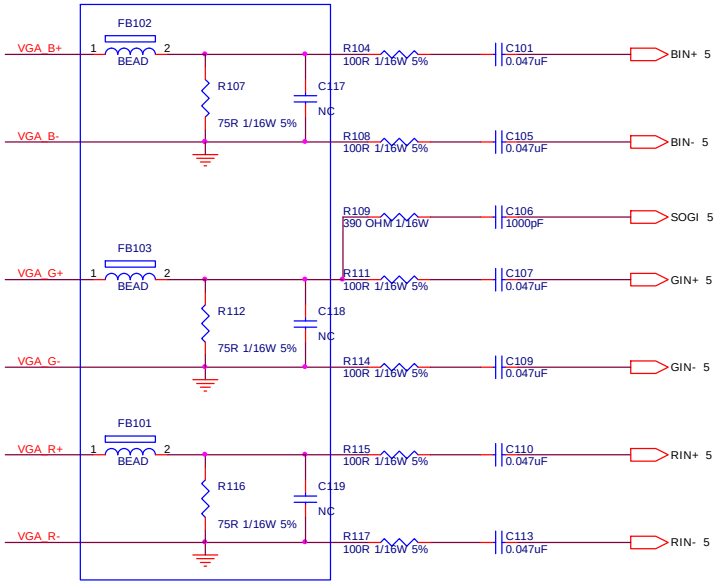
6. Circuit Schematic

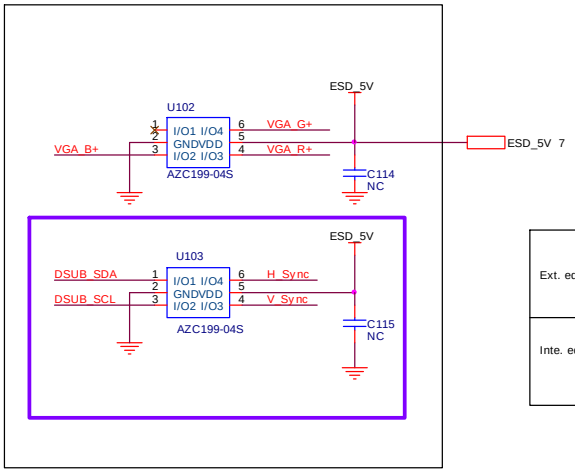
6.1 Main Board 1-715G3225-1



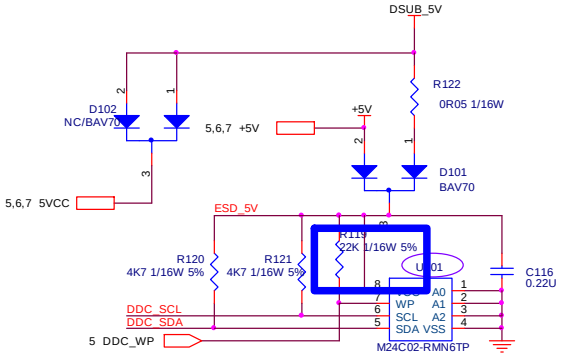
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	A
結 隔 瓜 網 腹	G3225-A-2-X-8-090311	TPV MODEL		Rev	E
Key Component	1.0.COVER	PCB NAME	715G3225-1	称爹	
Date	Friday , May 21, 2010	Sheet	3 of 7		





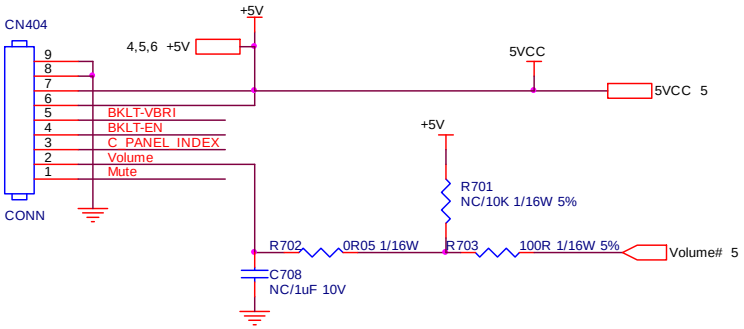


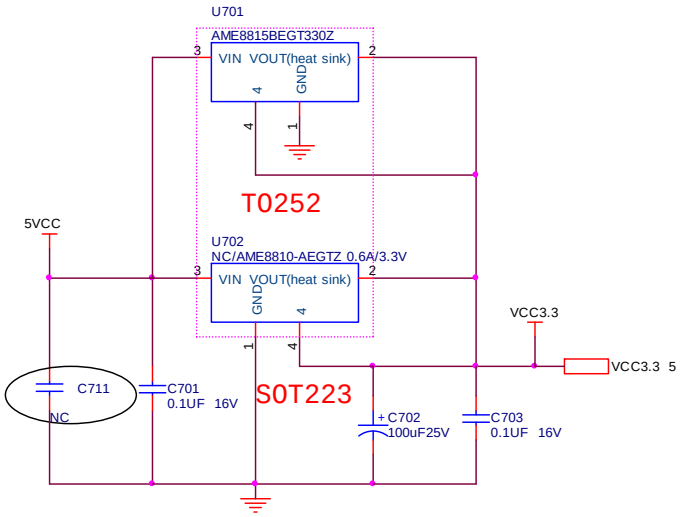
Ext. edid	U101: M24C02-RMN6TP C116: 0.22uf R119: 4.7K D102: NC R122: 0 ohm
Inte. edid	U101: NC C116: NC R119: NC D102: NC(LG), BAV70(the others) R122: NC(LG), 0 ohm(the others)

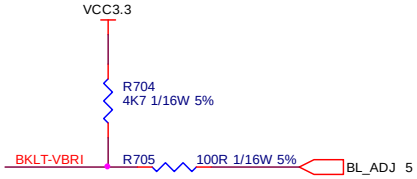


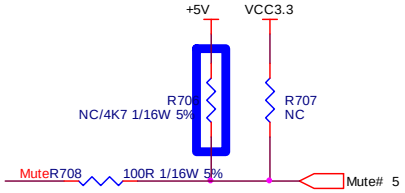
Change net to DDC_SCL,DDC_SDA

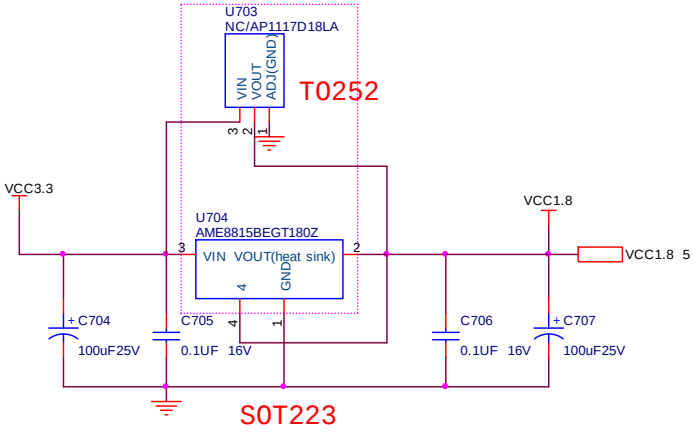
T P V （Top Victory Electronics Co.， Ltd.）		OEM MODEL	Viewsonic	Size	B
結 屬 瓜 鎖 腹	G3225-A-2-X-8-090311	TPV MODEL	VA1913	Rev	E
Key Component	1.0.COVER	PCB NAME	715G3225-1	称爹	
Date	Wednesday，December 02, 2009	Sheet	4 of 7		

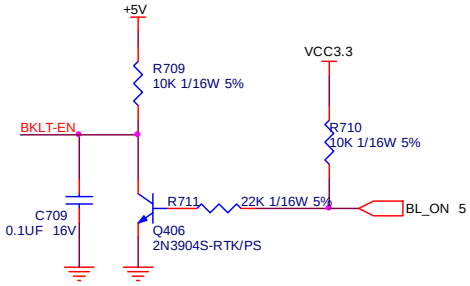


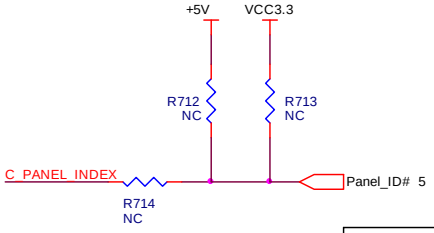




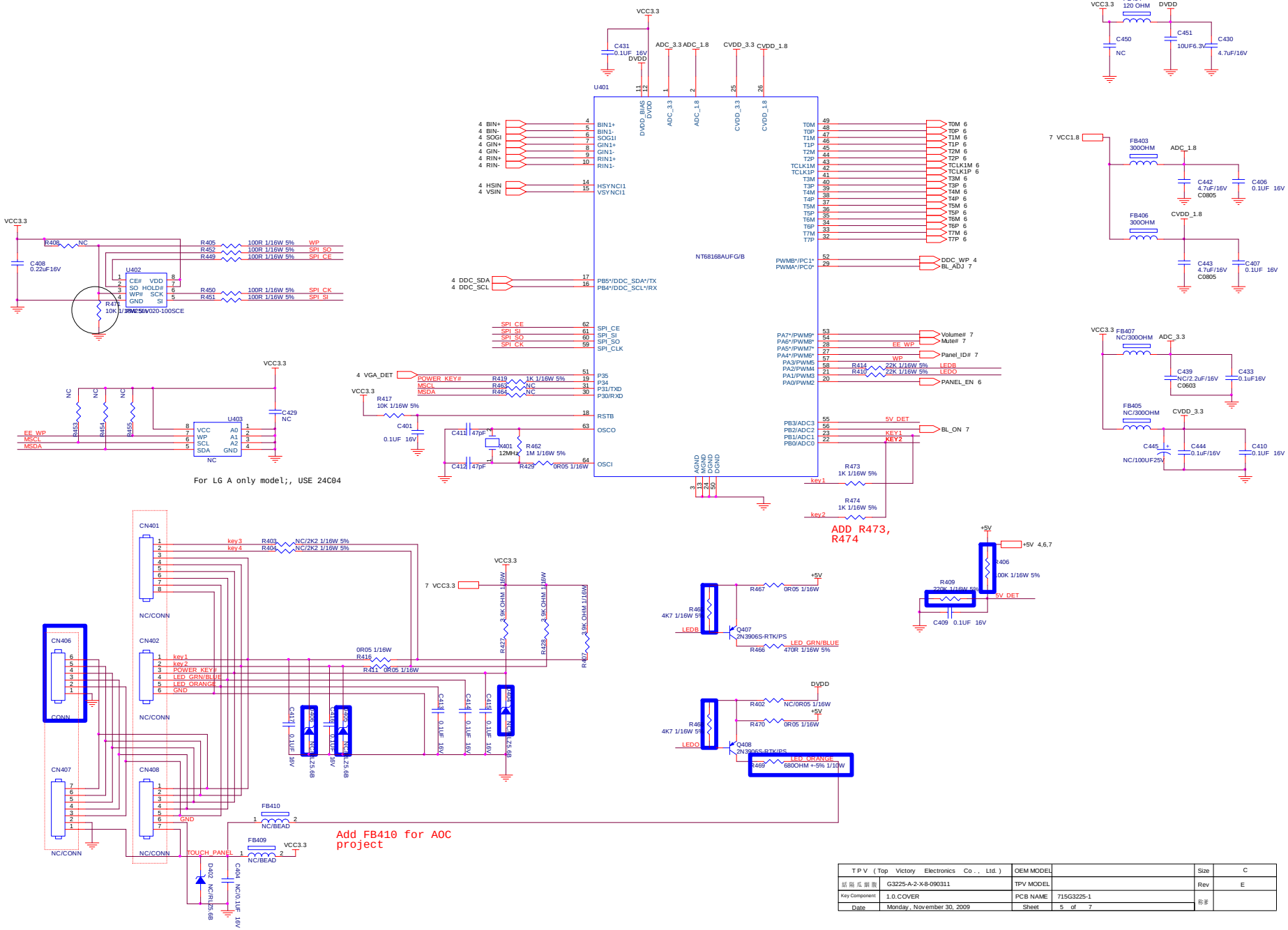


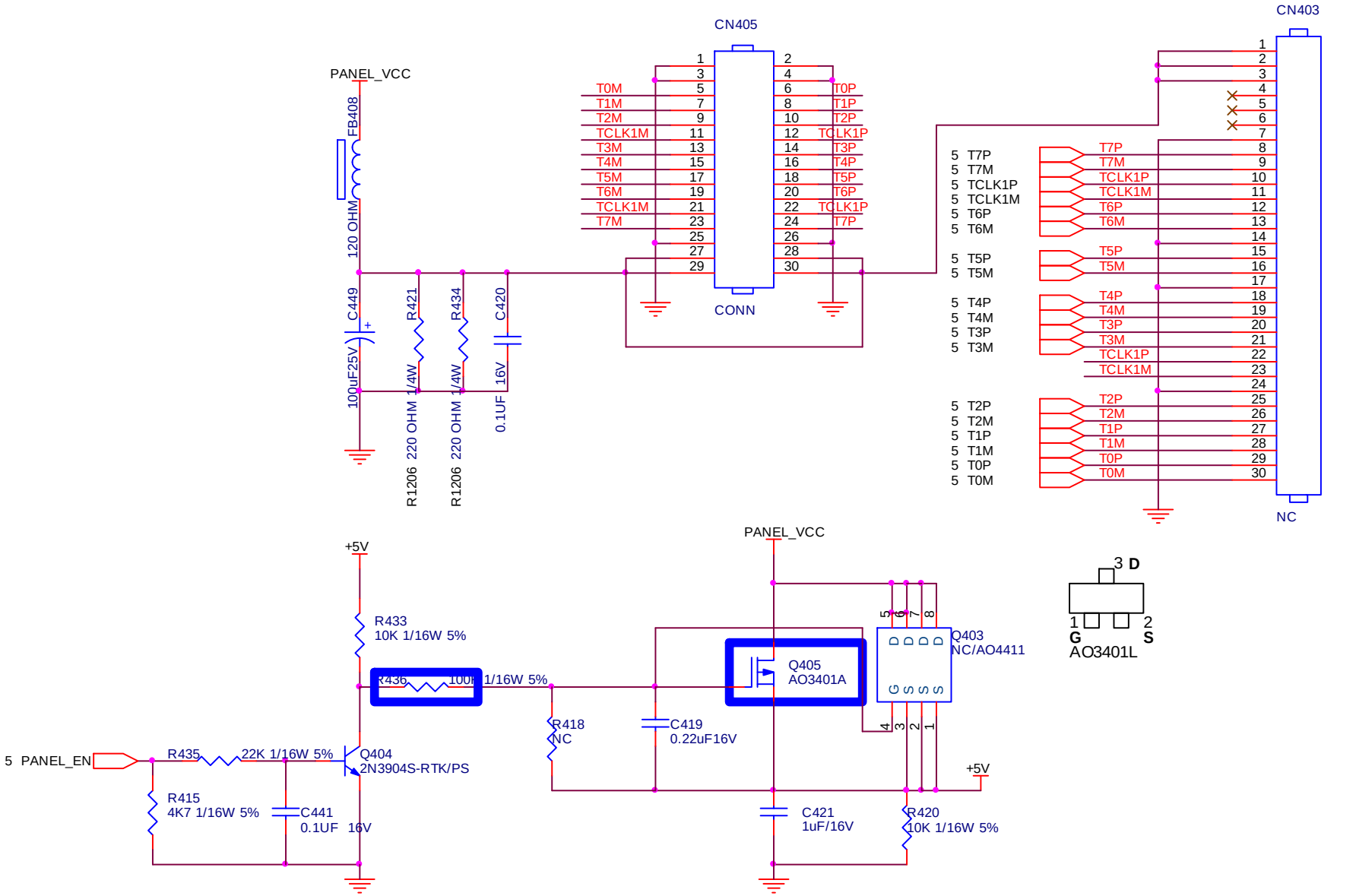






TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	B
結構代號	G3225-A-2-X-8-090311	TPV MODEL		Rev	E
Key Component	1.0.COVER	PCB NAME	715G3225-1	稱爹	
Date	Monday, November 30, 2009	Sheet	7 of 7		

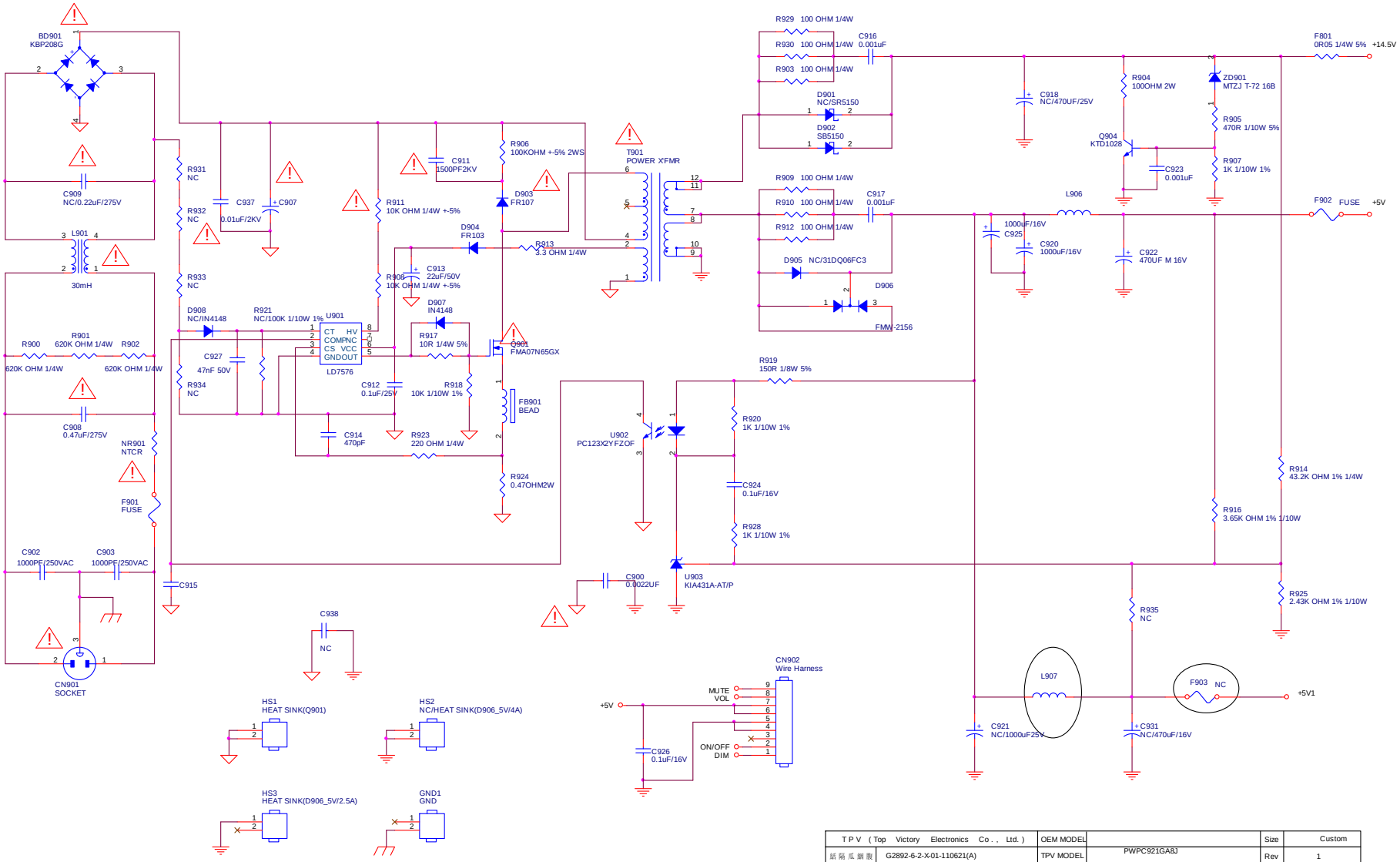

U401
NT68168AUFG/B
U402
U403
CN401
CN402
CN406
CN407
CN408
Q407
2N3906S-RTK/PS
Q408
2N3906S-RTK/PS
For LG A only model;, USE 24C04
ADD R473, R474
Add FB410 for AOC project
T P V (Top Victory Electronics Co . , Ltd.)
OEM MODEL
TPV MODEL
PCB NAME 715G3225-1
Date Monday , November 30, 2009
Sheet 5 of 7
Size C
Rev E



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	VSC	Size	A
結 隔 瓜 綢 腹	G3225-A-2-X-8-090311	TPV MODEL	VA1913	Rev	E
Key Component	1.0.COVER	PCB NAME	715G3225-1	称爹	
Date	Tuesday , December 01, 2009	Sheet	6 of 7		

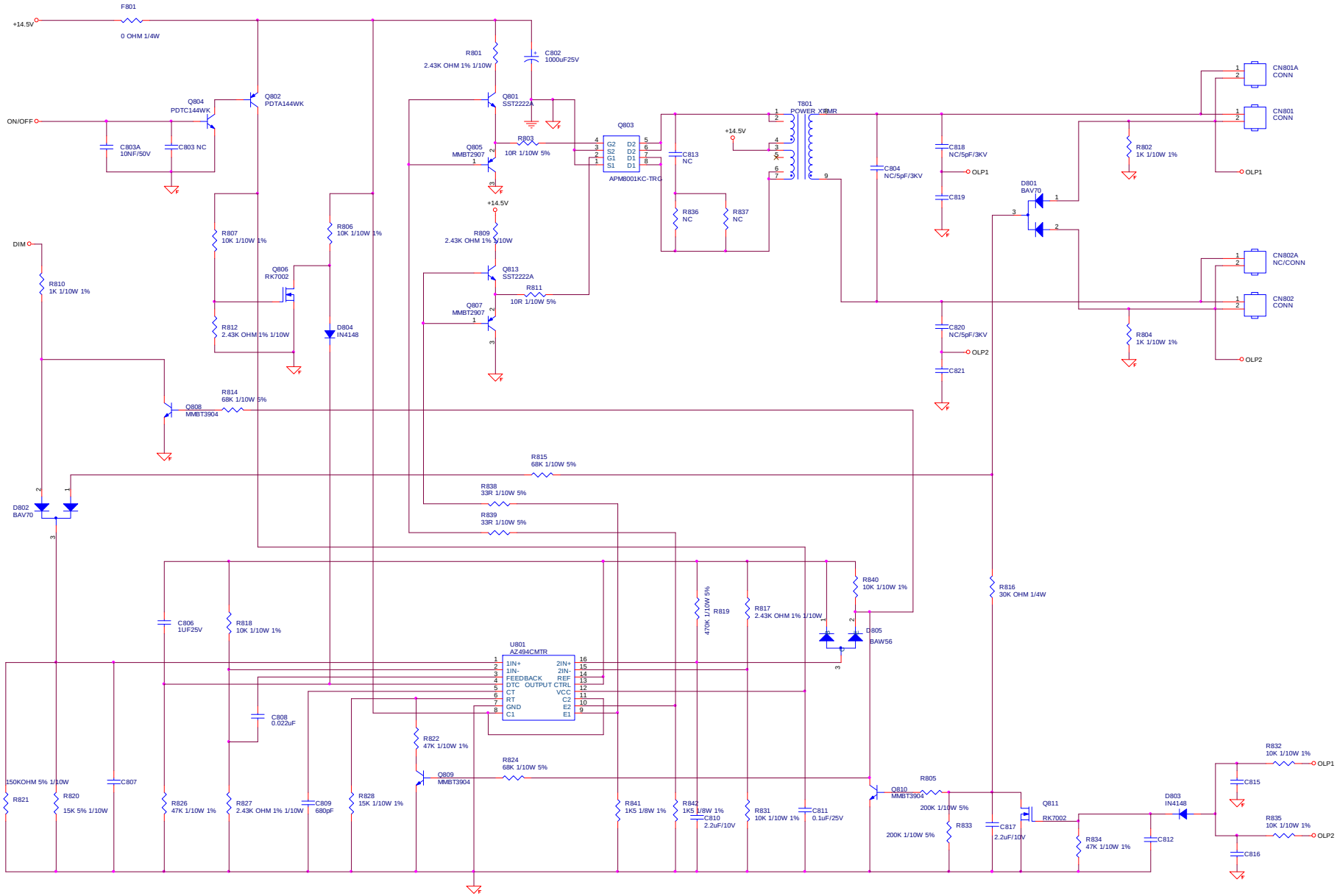
6.2 Power Board 715G2892-7

---adapter 14V/5V



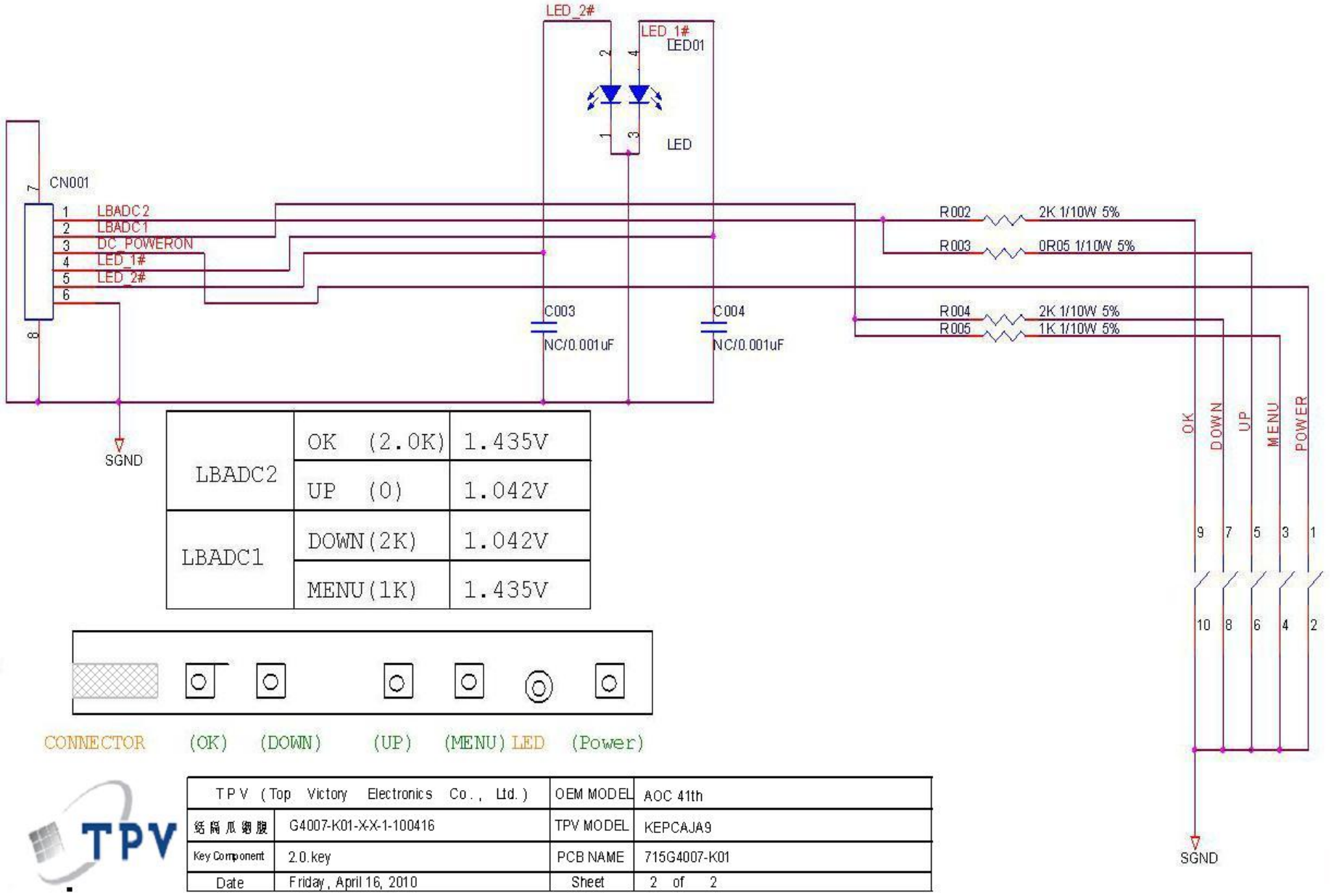
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
話 隔 瓜 銅 箔	G2892-6-2-X-01-110621(A)	TPV MODEL	PWPC921GA8J	Rev	1
Key Component	02.POWER	PCB NAME	715G2892-6-2	称 爹	ODM MODEL
Date	Wednesday, November 09, 2011	Sheet	of	H919S	

6.3 Inverter part----



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	H919S	Size	Custom
版面代號	G2892-6-2-X-01-110621(A)	TPV MODEL	PWPC921GA8J	Rev	1
Key Component	03.INVERTER	PCB NAME	715G2892-6-2	附錄	ODM MODEL
Date	Wednesday, November 09, 2011	Sheet	of		

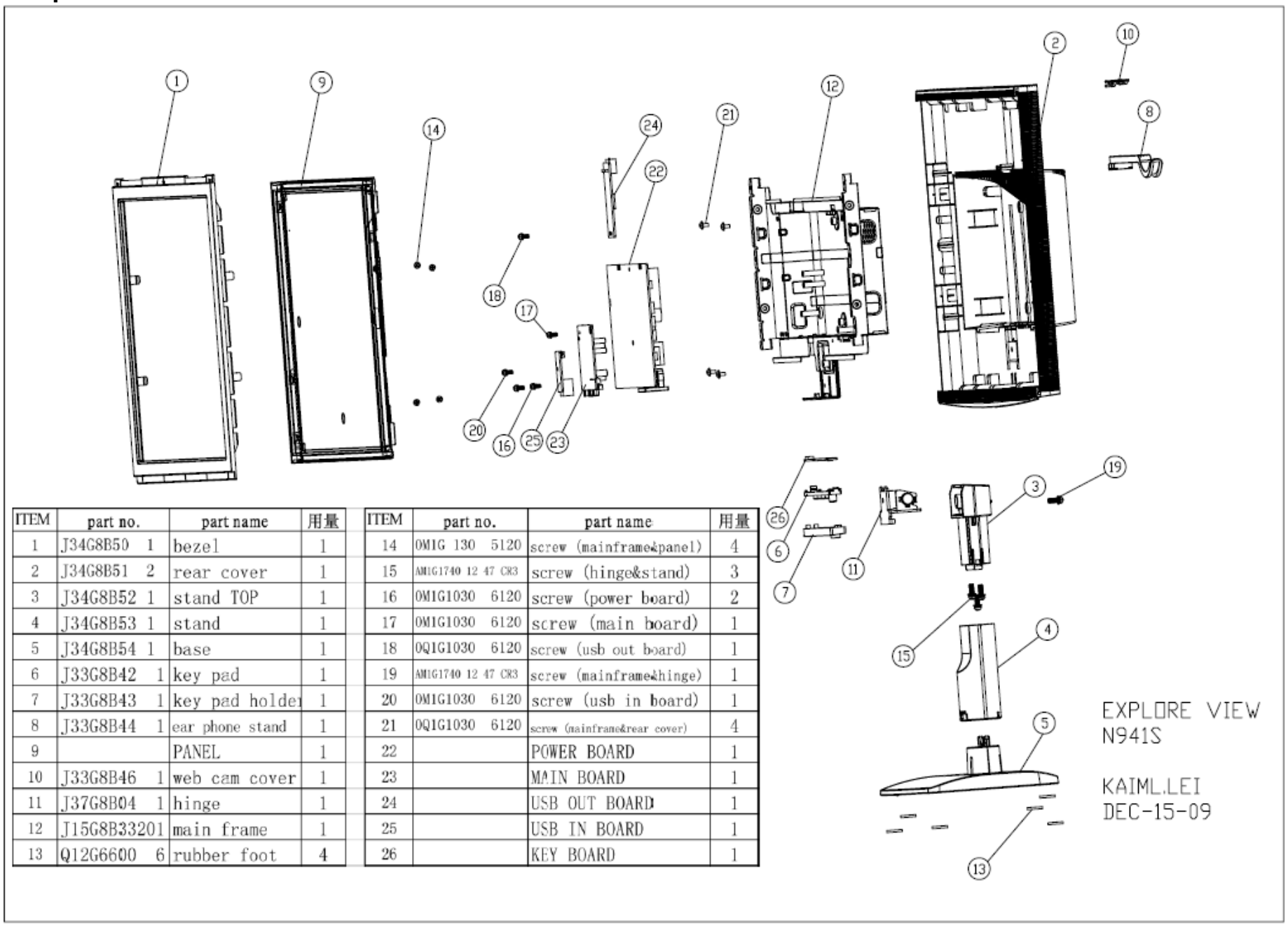
6.4 Key Board 715G4007-K01



LBADC2	OK (2.0K)	1.435V
	UP (0)	1.042V
LBADC1	DOWN(2K)	1.042V
	MENU(1K)	1.435V

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	AOC 41th
结构件编码	G4007-K01-X-X-1-100416	TPV MODEL	KEPCAJA9
Key Component	2.0.key	PCB NAME	715G4007-K01
Date	Friday, April 16, 2010	Sheet	2 of 2

7.Explore Views

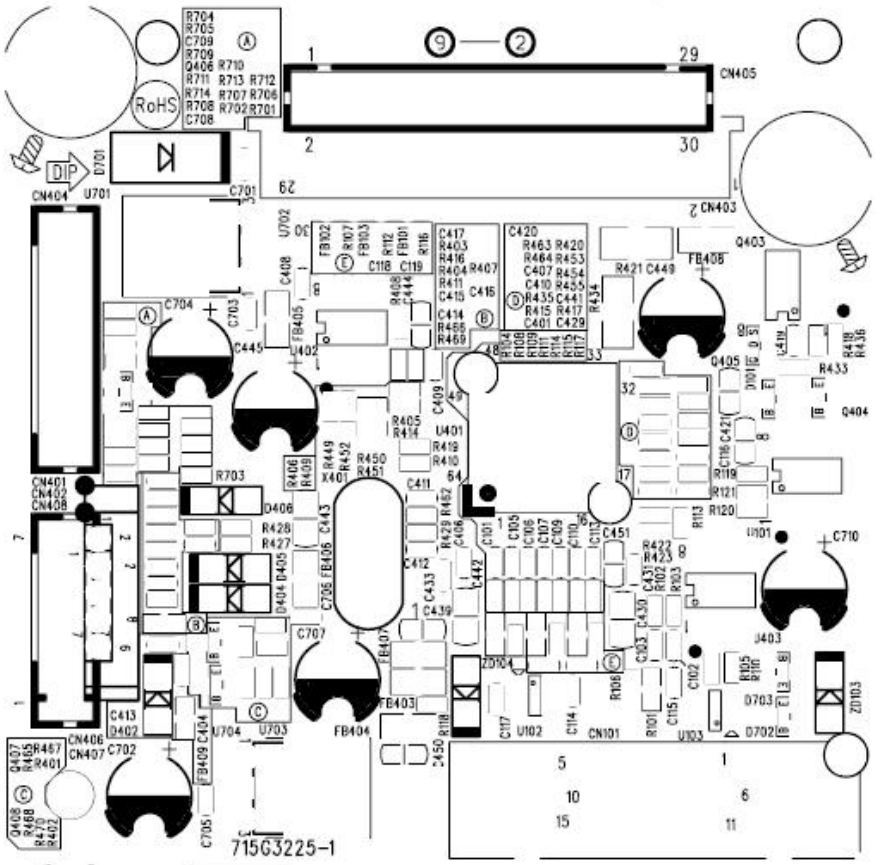


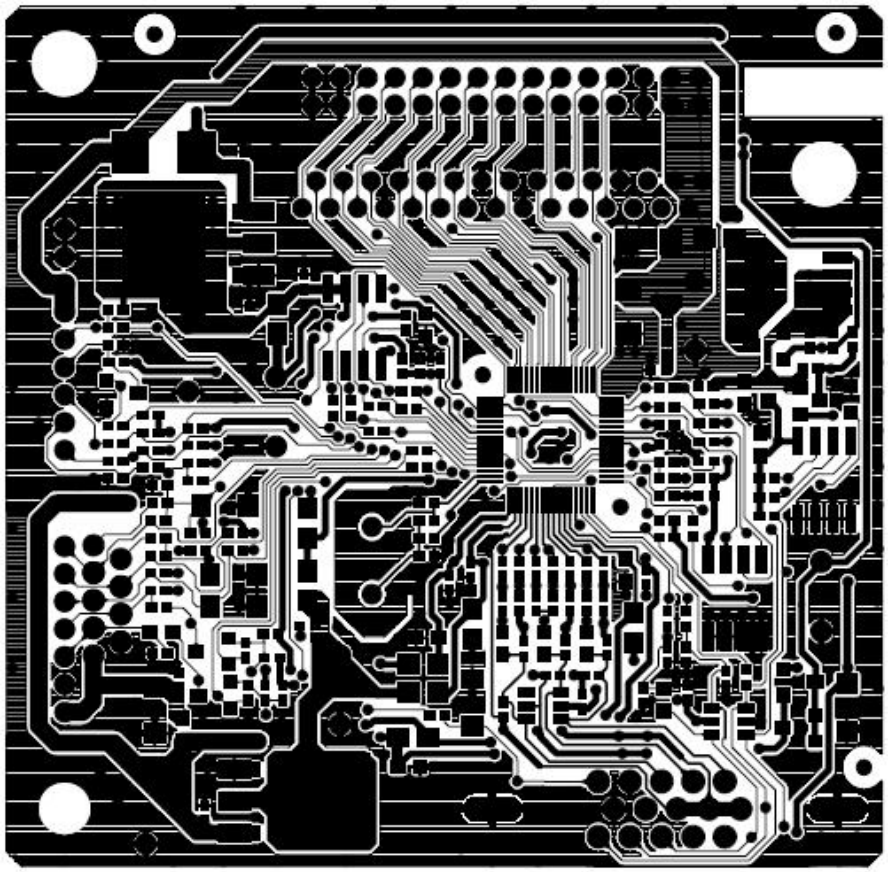
ITEM	part no.	part name	用量
1	J34G8B50 1	bezel	1
2	J34G8B51 2	rear cover	1
3	J34G8B52 1	stand TOP	1
4	J34G8B53 1	stand	1
5	J34G8B54 1	base	1
6	J33G8B42 1	key pad	1
7	J33G8B43 1	key pad holder	1
8	J33G8B44 1	ear phone stand	1
9		PANEL	1
10	J33G8B46 1	web cam cover	1
11	J37G8B04 1	hinge	1
12	J15G8B33201	main frame	1
13	Q12G6600 6	rubber foot	4

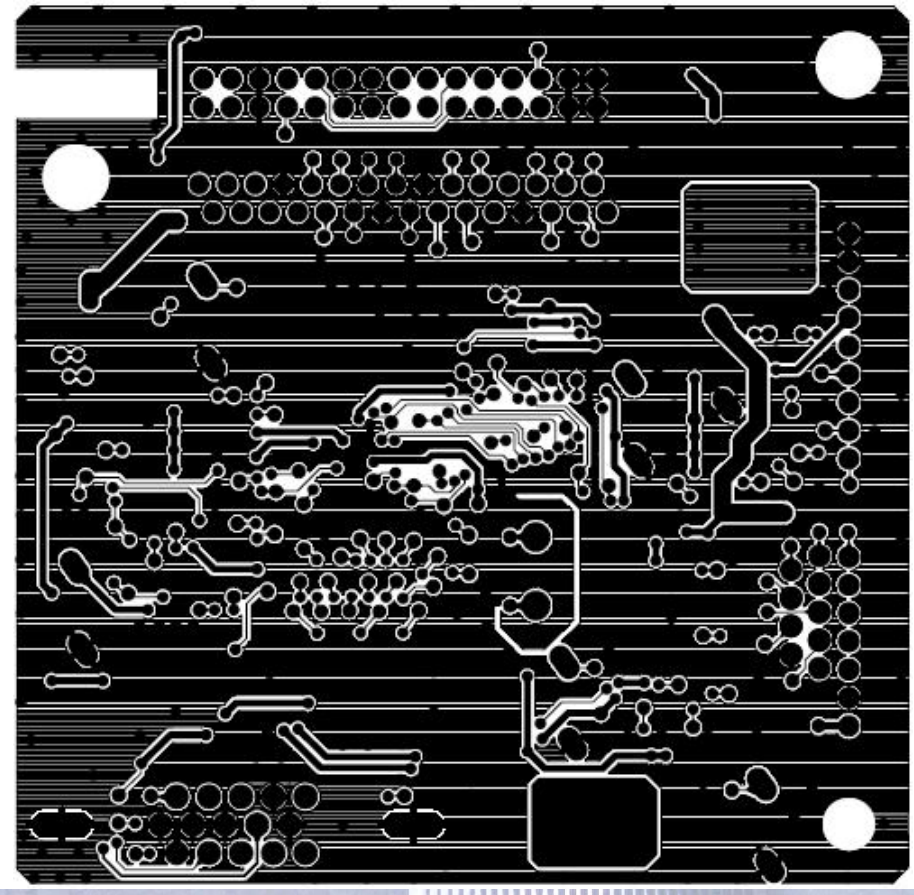
ITEM	part no.	part name	用量
14	0M1G 130 5120	screw (mainframe&panel)	4
15	AM1G1740 12 47 CR3	screw (hinge&stand)	3
16	0M1G1030 6120	screw (power board)	2
17	0M1G1030 6120	screw (main board)	1
18	0Q1G1030 6120	screw (usb out board)	1
19	AM1G1740 12 47 CR3	screw (mainframe&hinge)	1
20	0M1G1030 6120	screw (usb in board)	1
21	0Q1G1030 6120	screw (mainframe&rear cover)	4
22		POWER BOARD	1
23		MAIN BOARD	1
24		USB OUT BOARD	1
25		USB IN BOARD	1
26		KEY BOARD	1

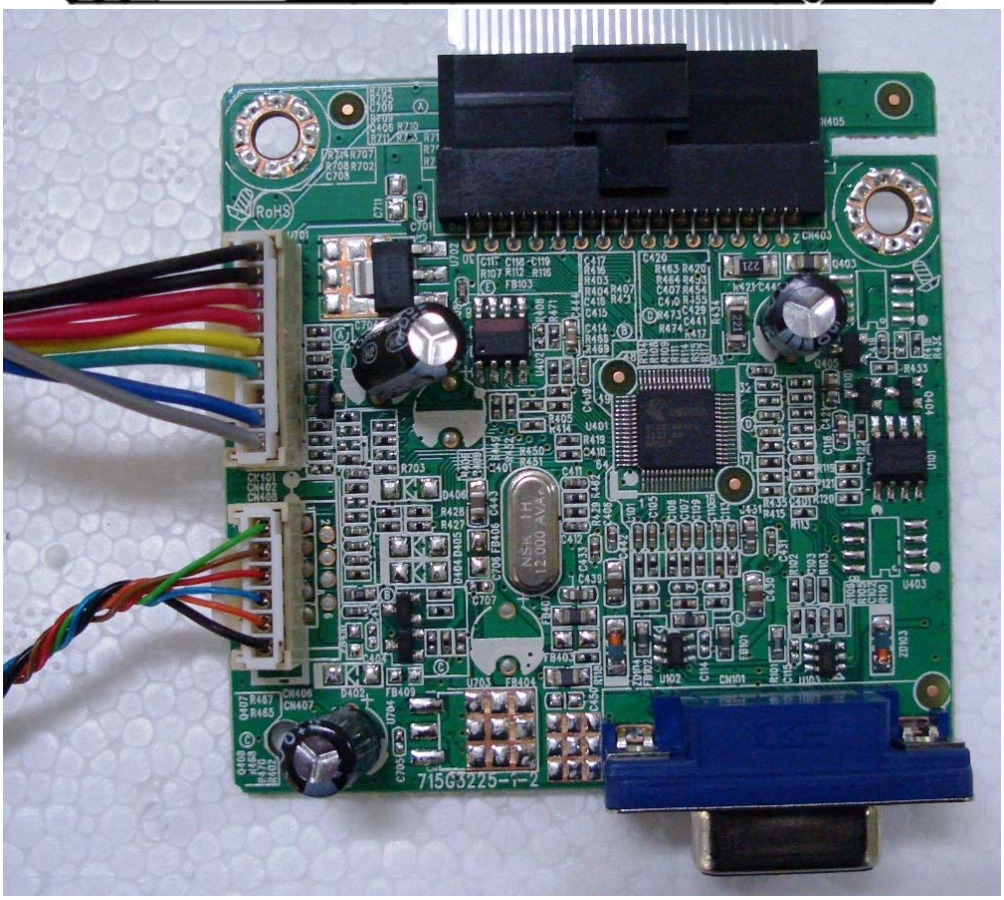
8. PCB Layout

8.1 MainBoard -- 715G3225-1

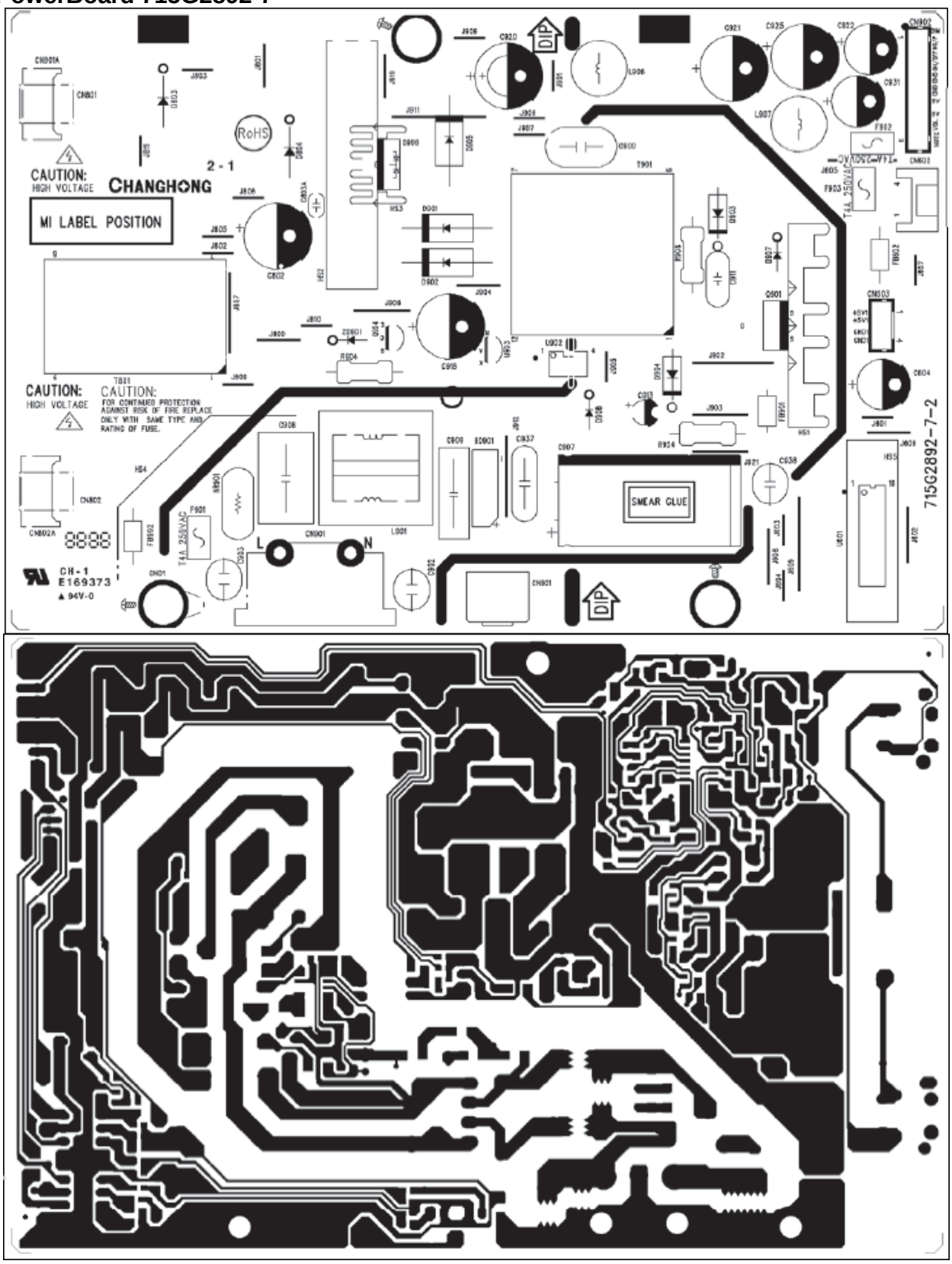


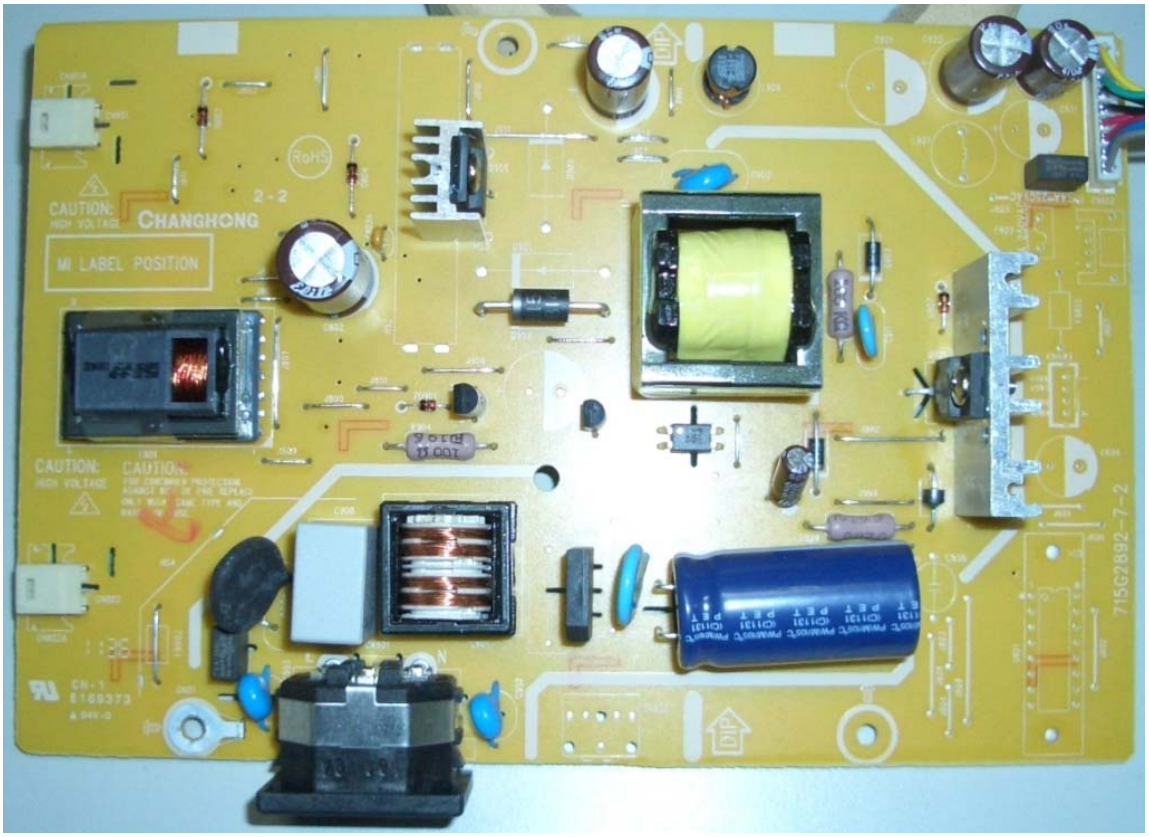




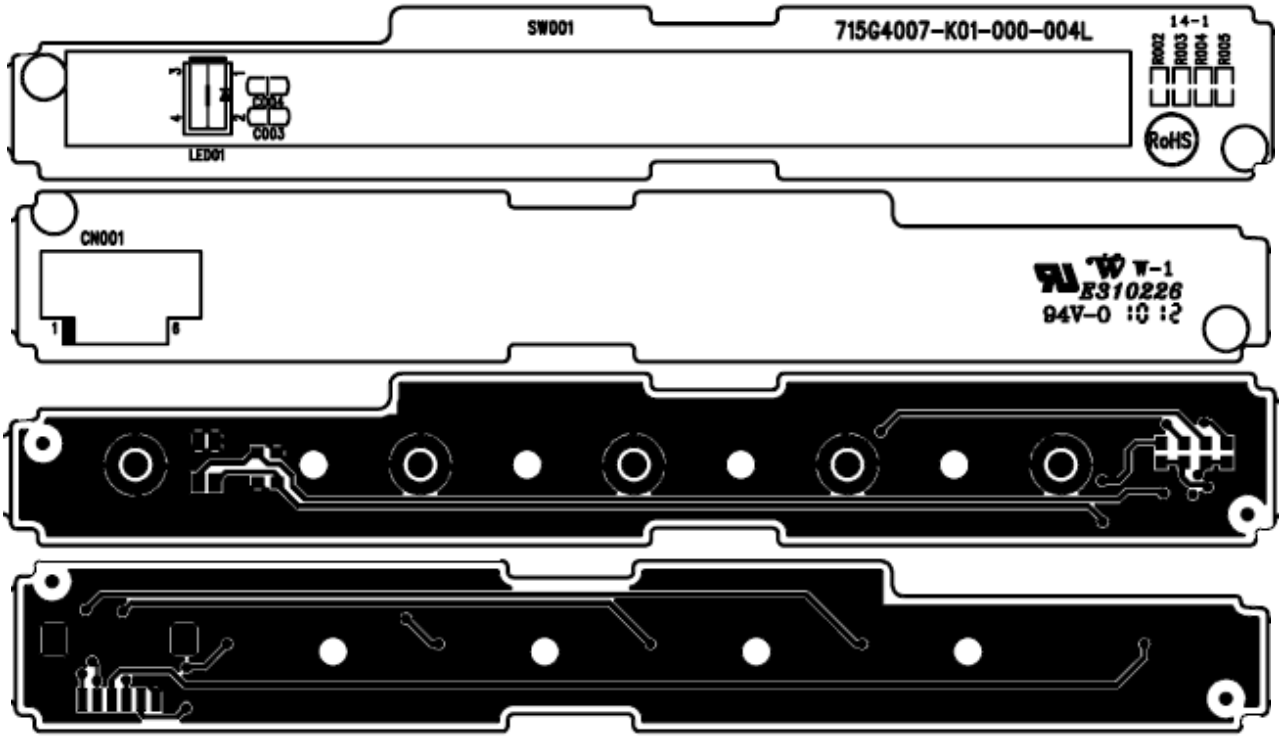

715G3225-1-2

8.2 PowerBoard 715G2892-7





8.3 KeyBoard ---715G4007



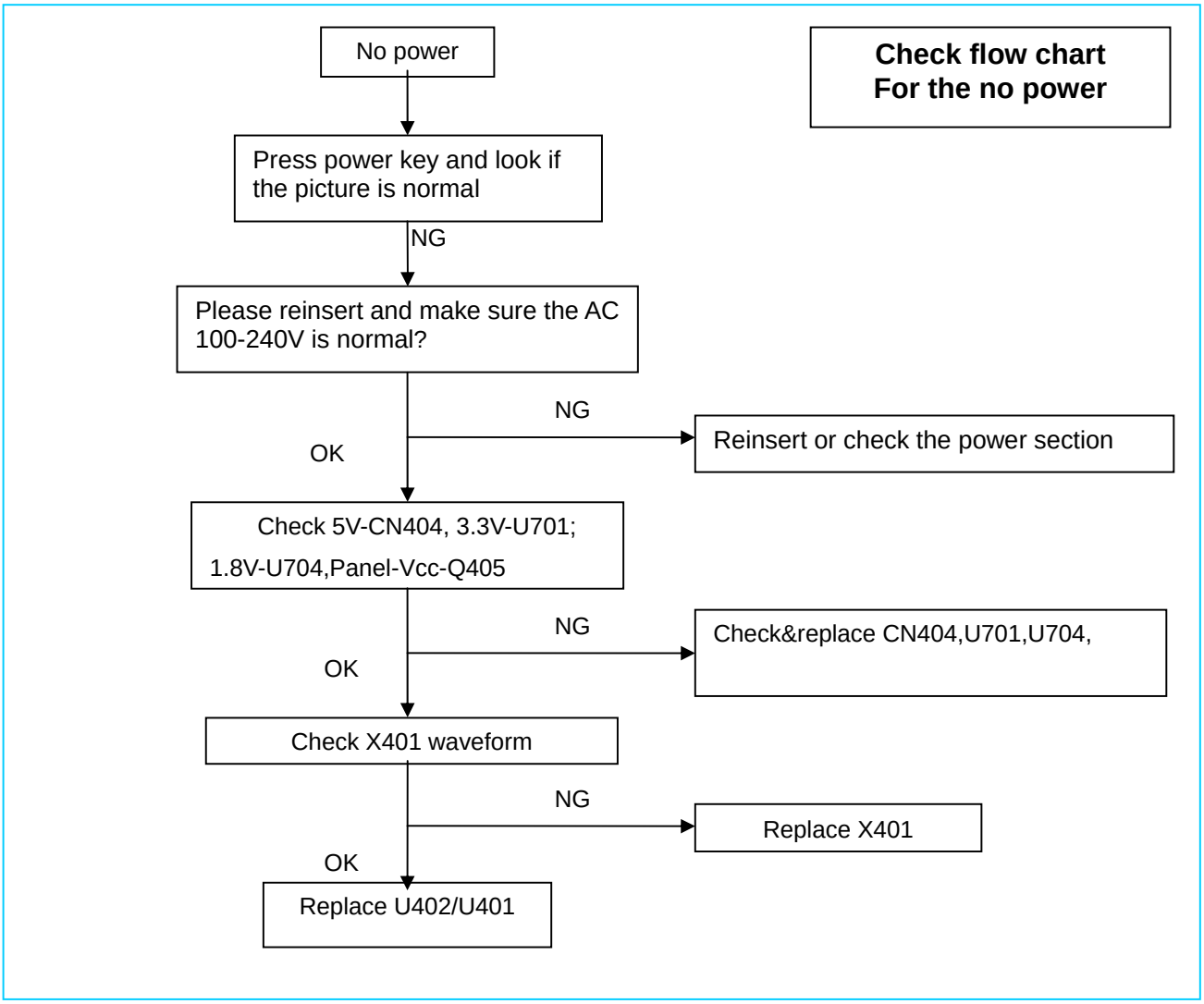
9. Maintenance Trouble treatment

9.1 Maintainability Requirement

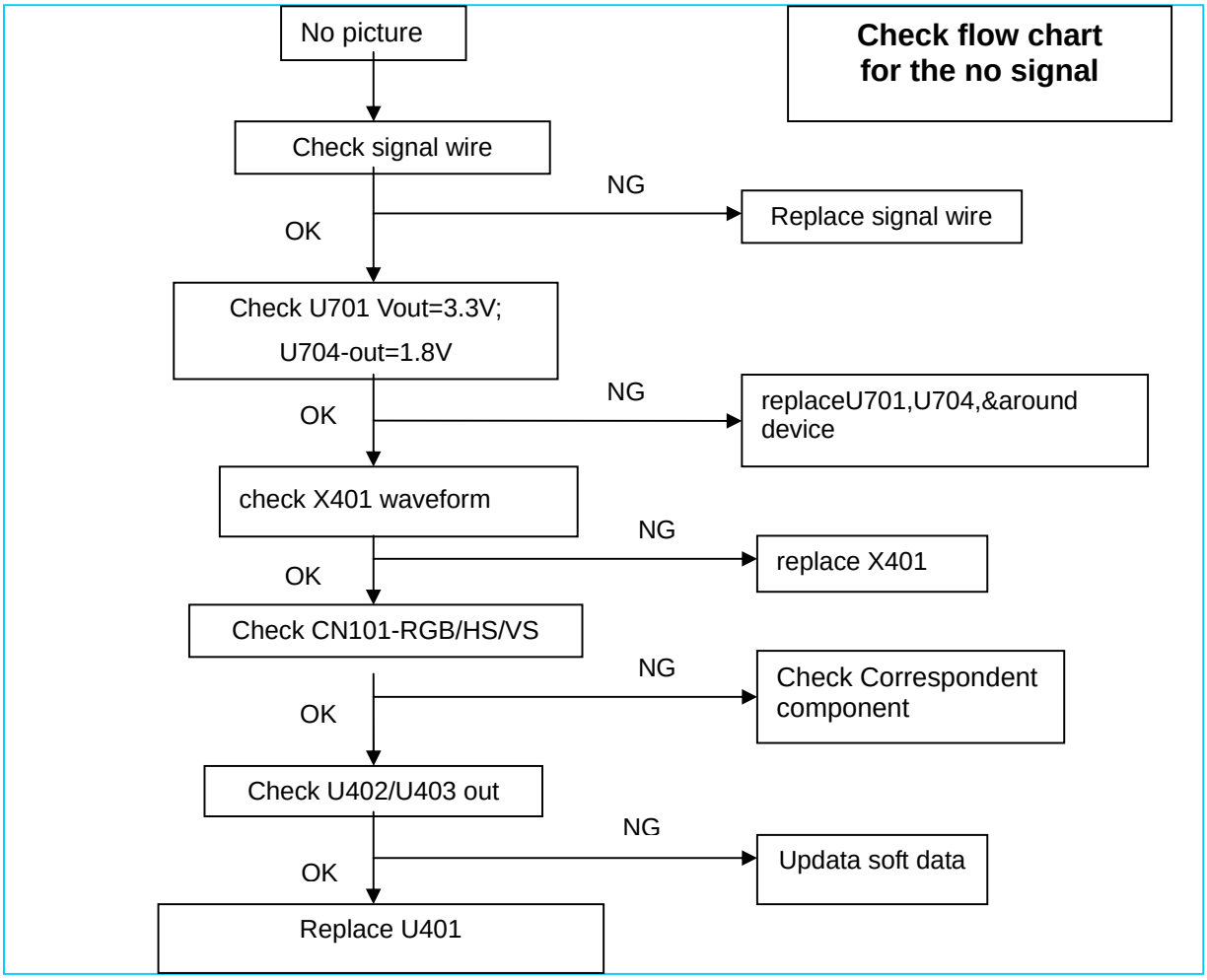
1. Voltmeter. & digital multimeter
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.
9. repair tools etc

9.2 Trouble Shooting

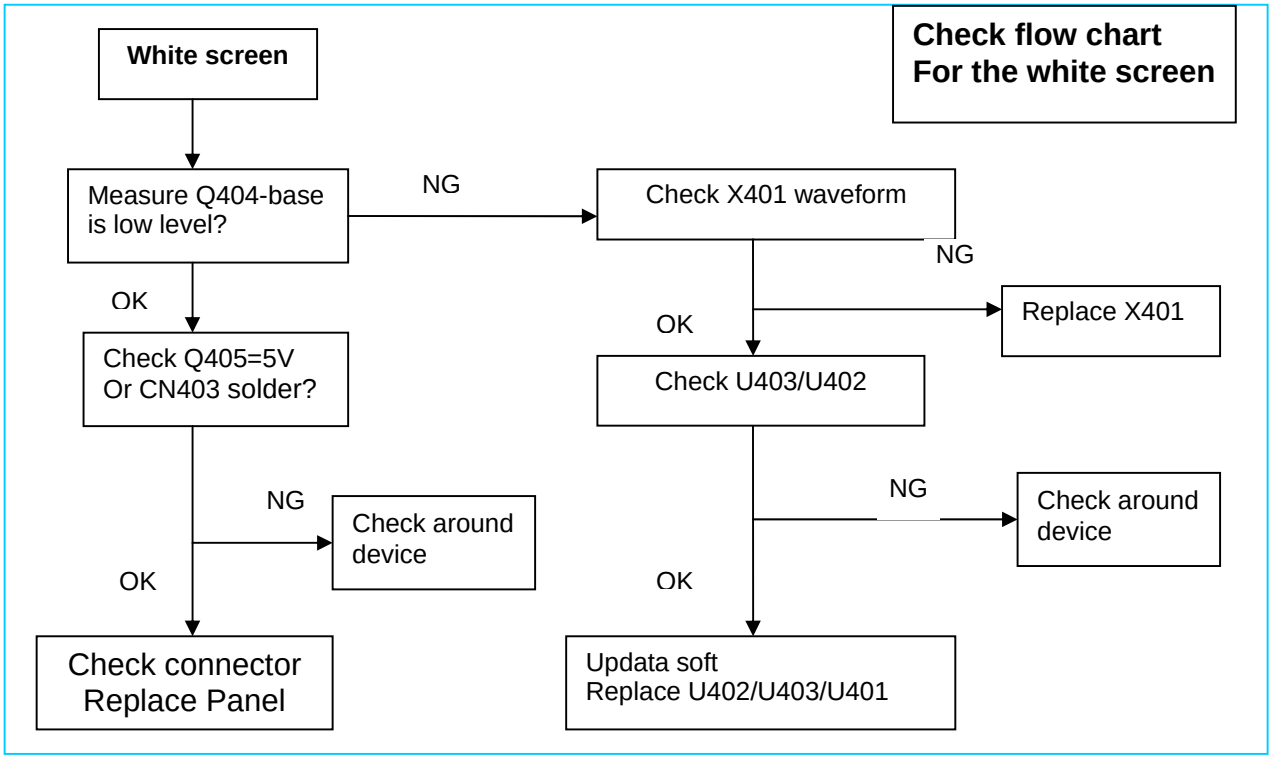
Main Board---No Power



No picture (LED orange)

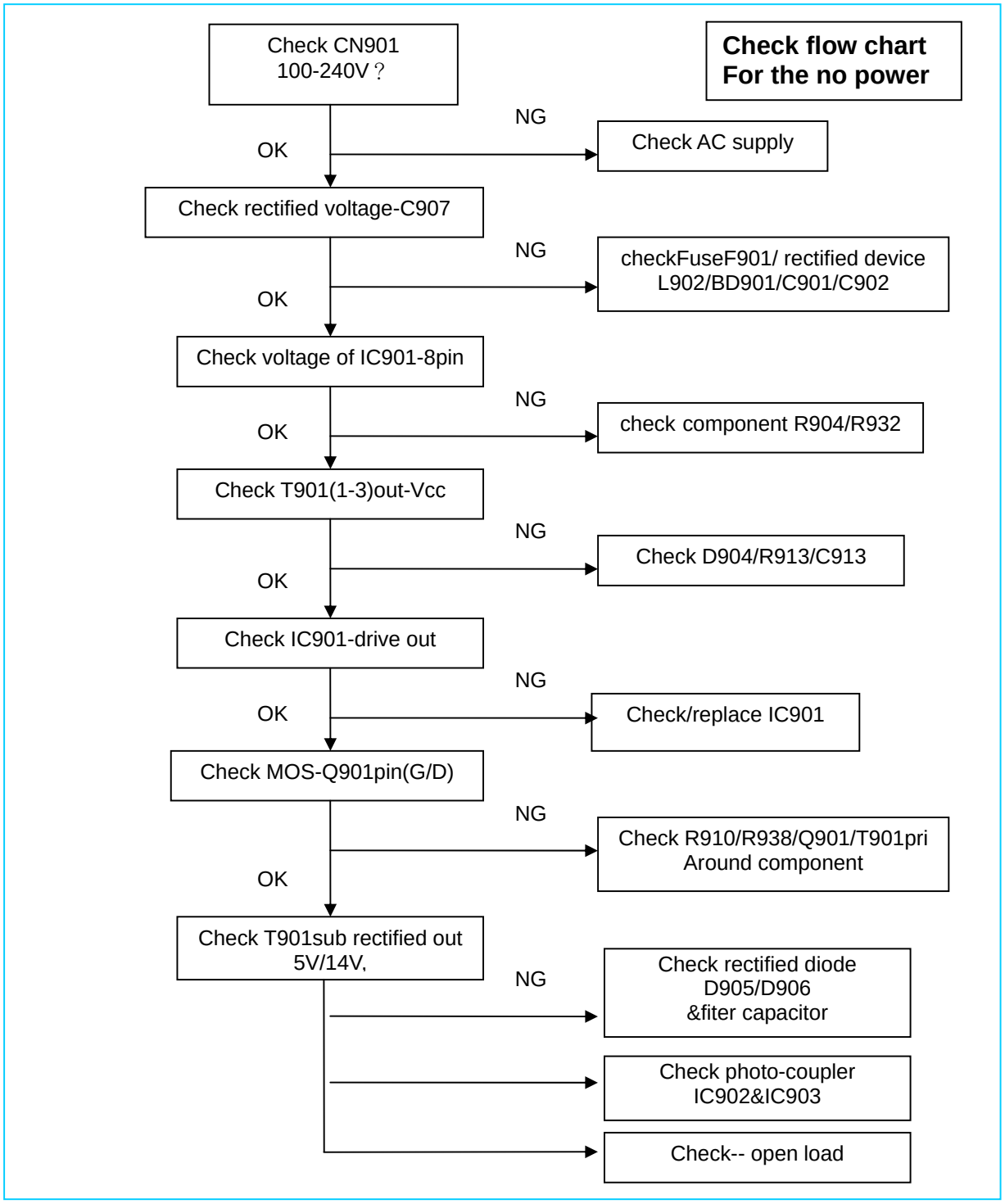


Whitescreen

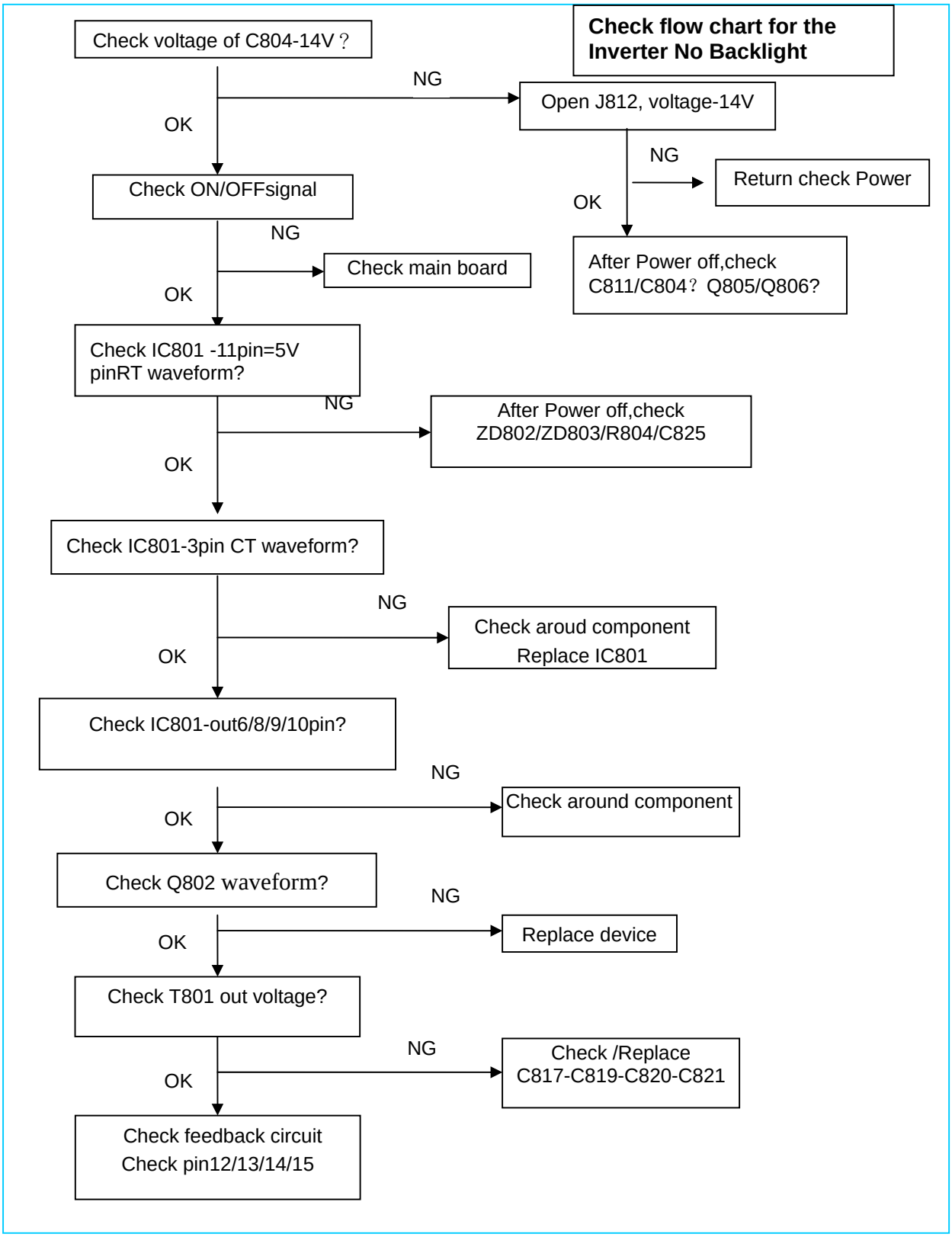


Power Board---

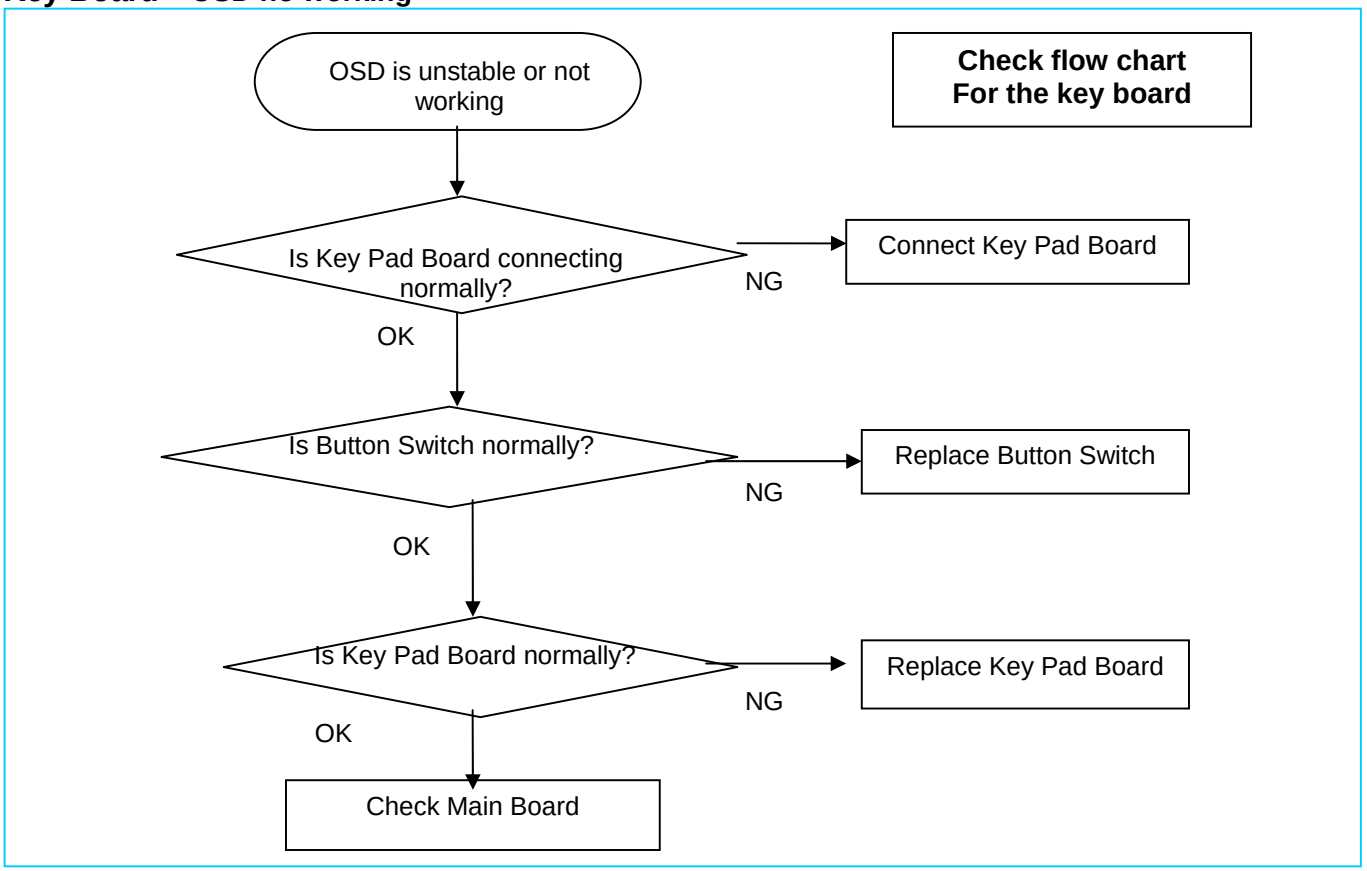
No Power 5V/12V



No Backlight of panel



Key Board---OSD no working

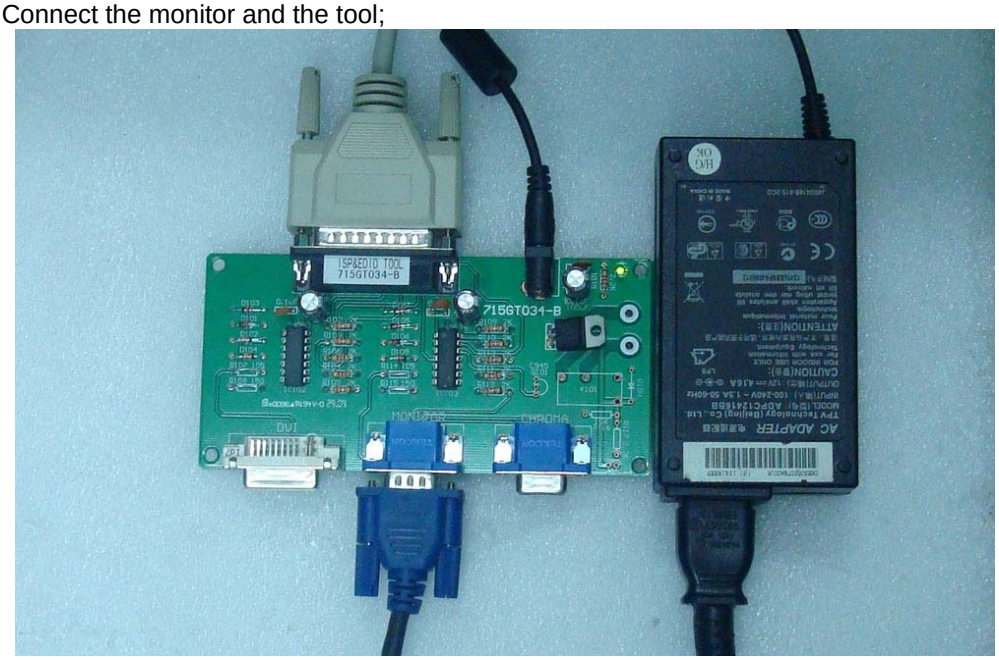


9.3 Software programming step

U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M
SMTCR-U402	100GANA9000B21	AOCN941S_NT68168_AUOM190PW01V7_V002
	756GJ9CB AA082	MCU ASSY CBPC9NWA1QHJ G3225-1-2

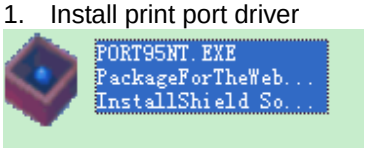
Step1：Connection

1. Connect LPT cable of the PC, the other end of cable to connect ISP programming card（**715GT034-B**）;
2.VGA cable to Connect the monitor and the tool;

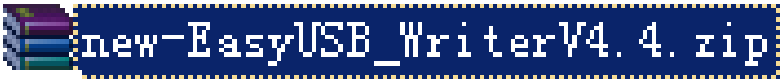


Step 2：Setup ISP Tool(NOVATEK Tool) ---Driver Installation

1. Install print port driver

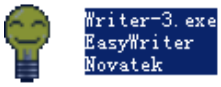


2. The set up of the writing program:Novatek tool:



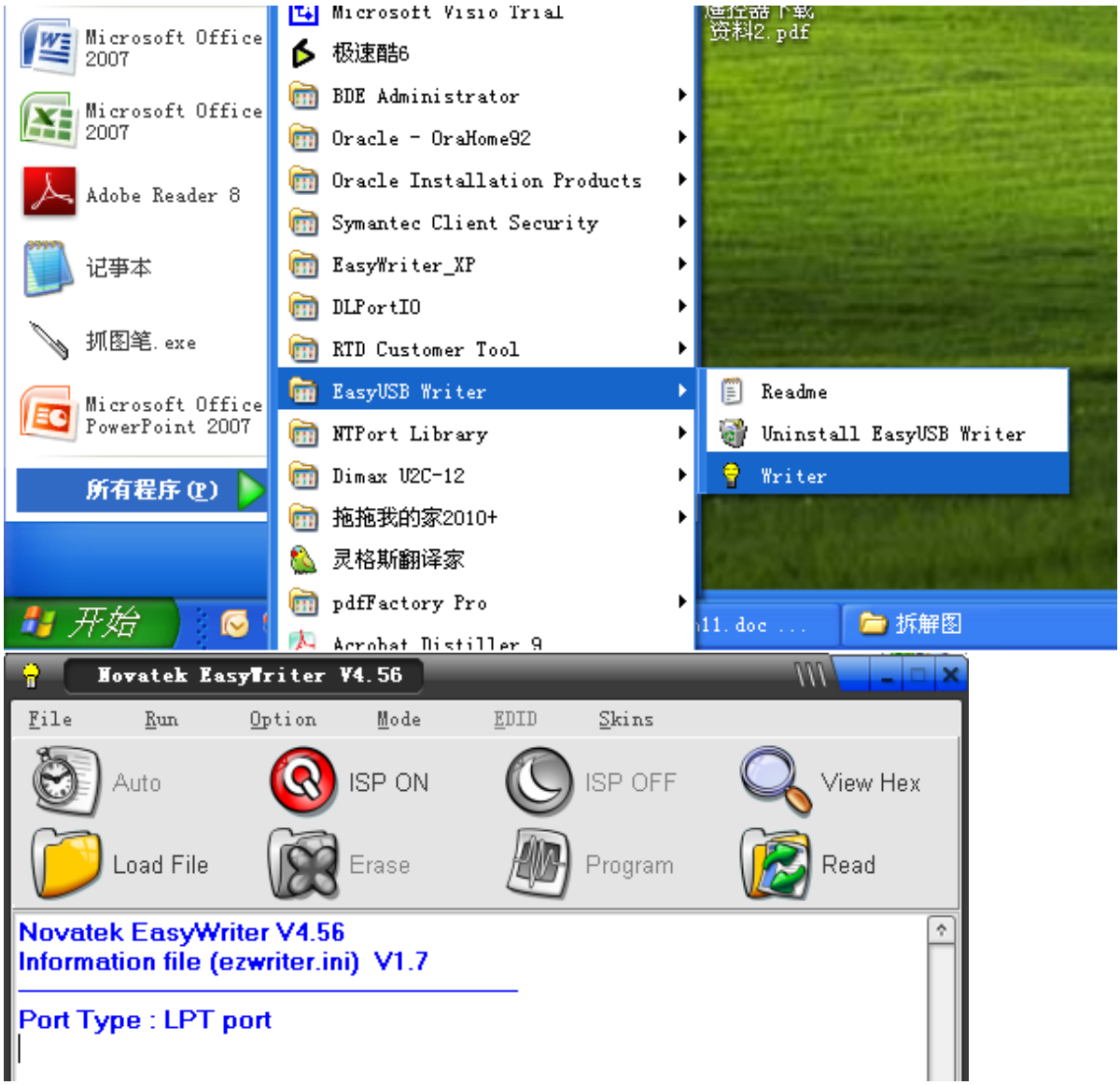
3. After extracting, double-click the icon to install the system driver ntport24.zip,

Step 3.Run

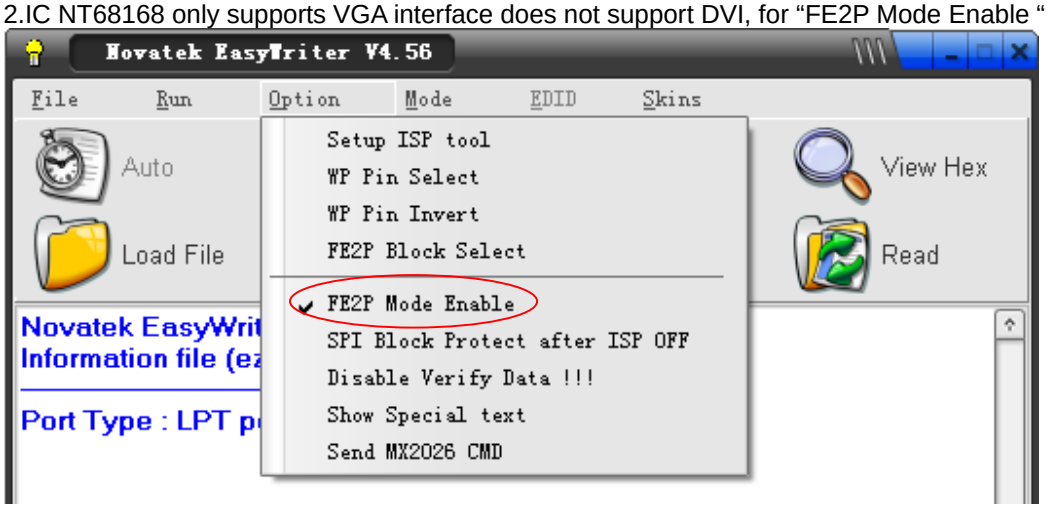


1. Double-click Icon

2.From “Start”-“program”,Run tools Novatek EasyWriter V4.5,

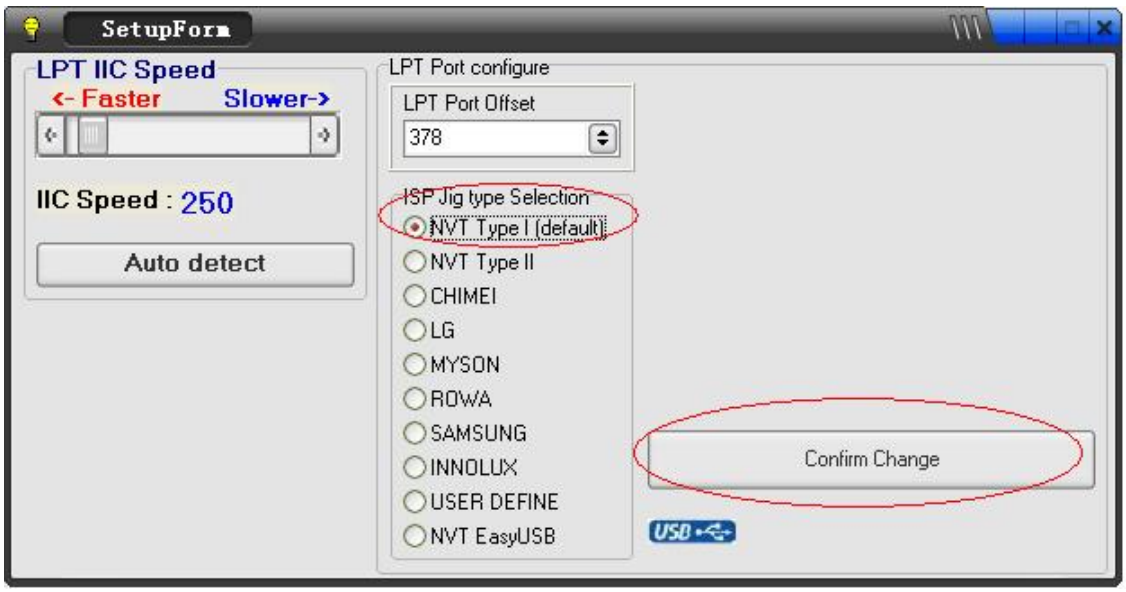


2.IC NT68168 only supports VGA interface does not support DVI, for “FE2P Mode Enable “,Do not need to tick;



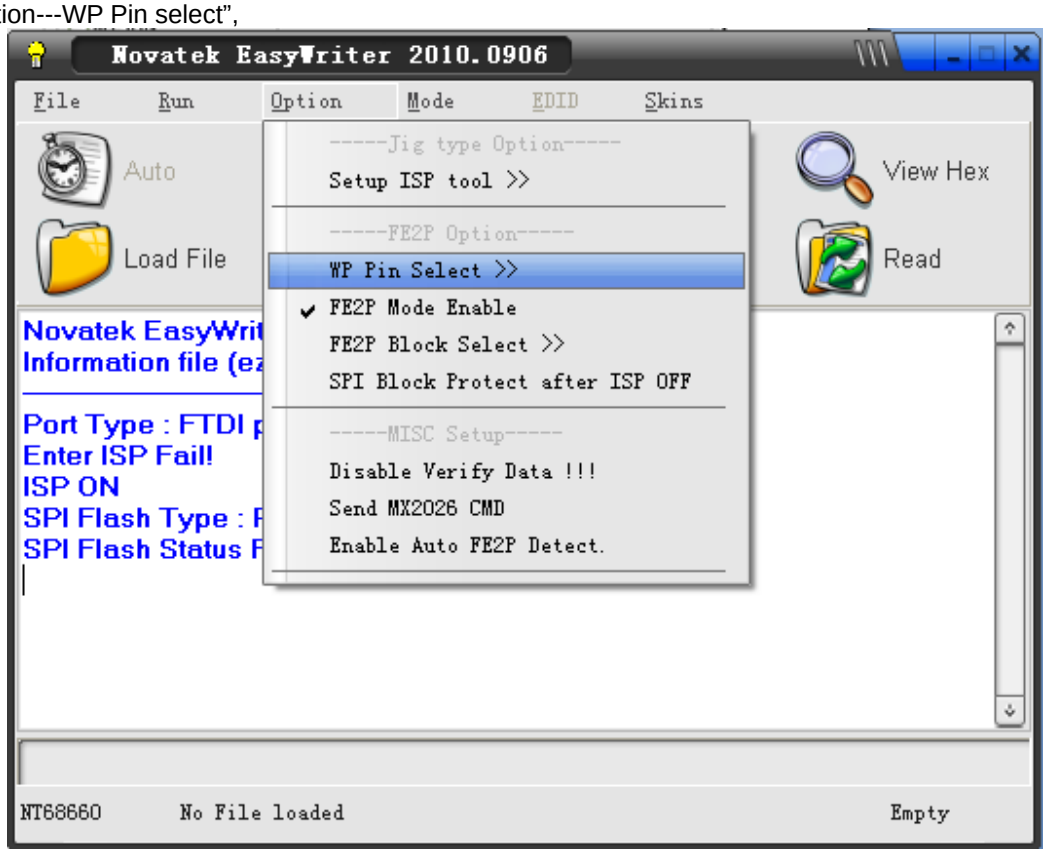
For a DVI or HDMI, must be checked in order to protect the HDCP code.

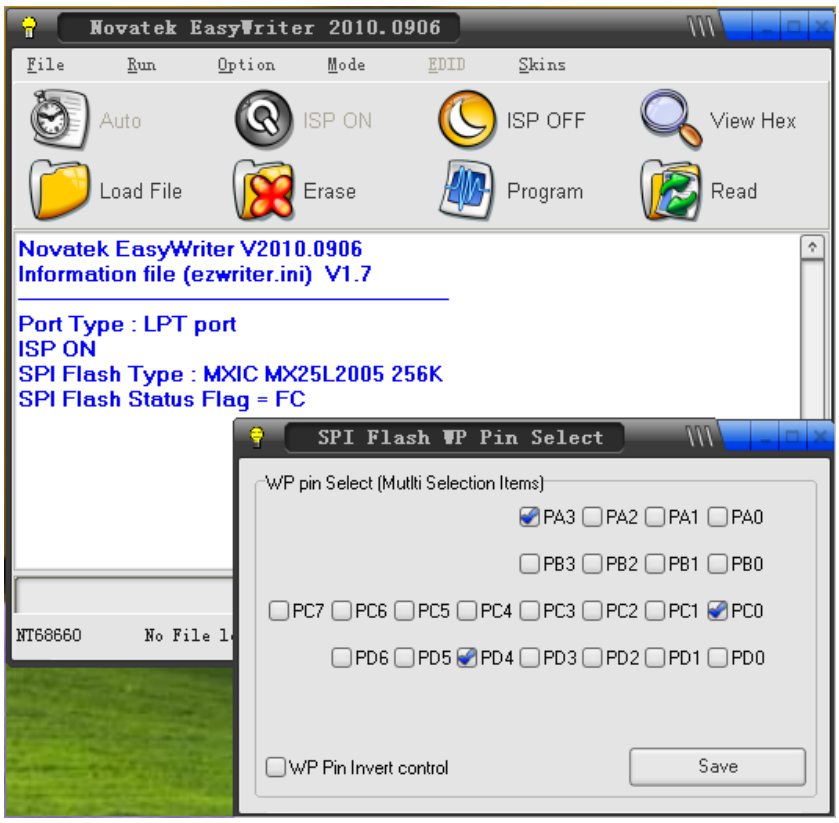
3.Click “Option”---“Setup ISP tool”, The figure appears.(The system will automatically identify types of tools)



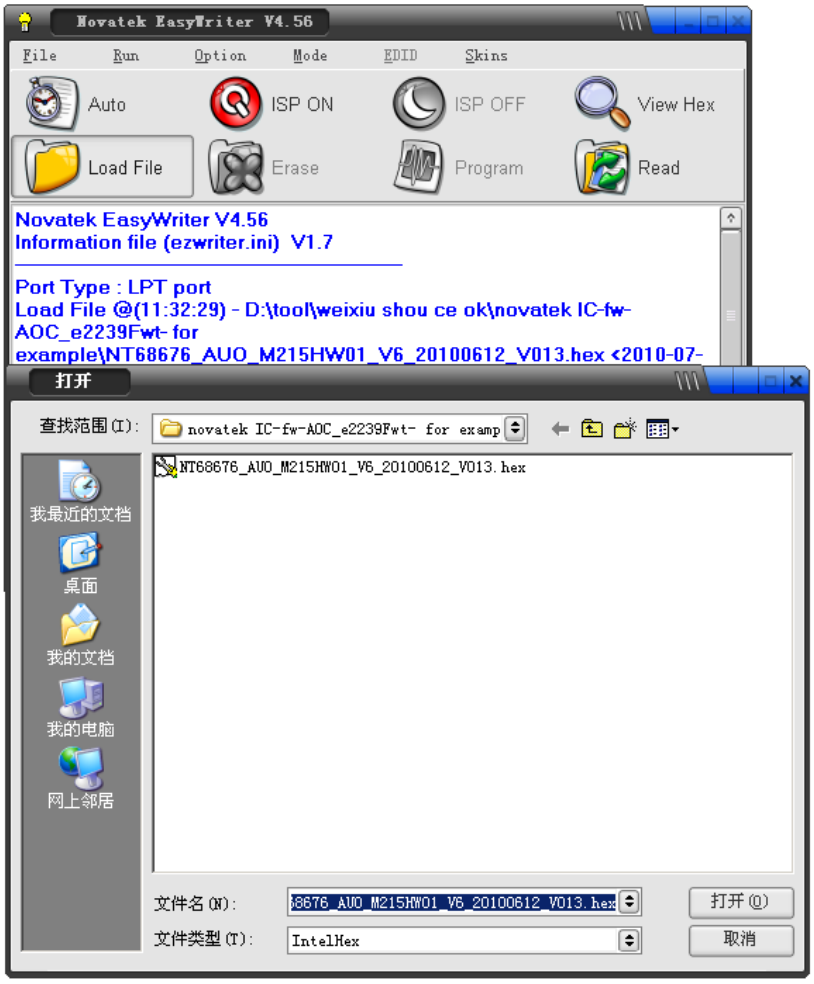
Selection according to the figure,click “Confirm Change”, Close the settings.

4.Click ”Option---WP Pin select”,

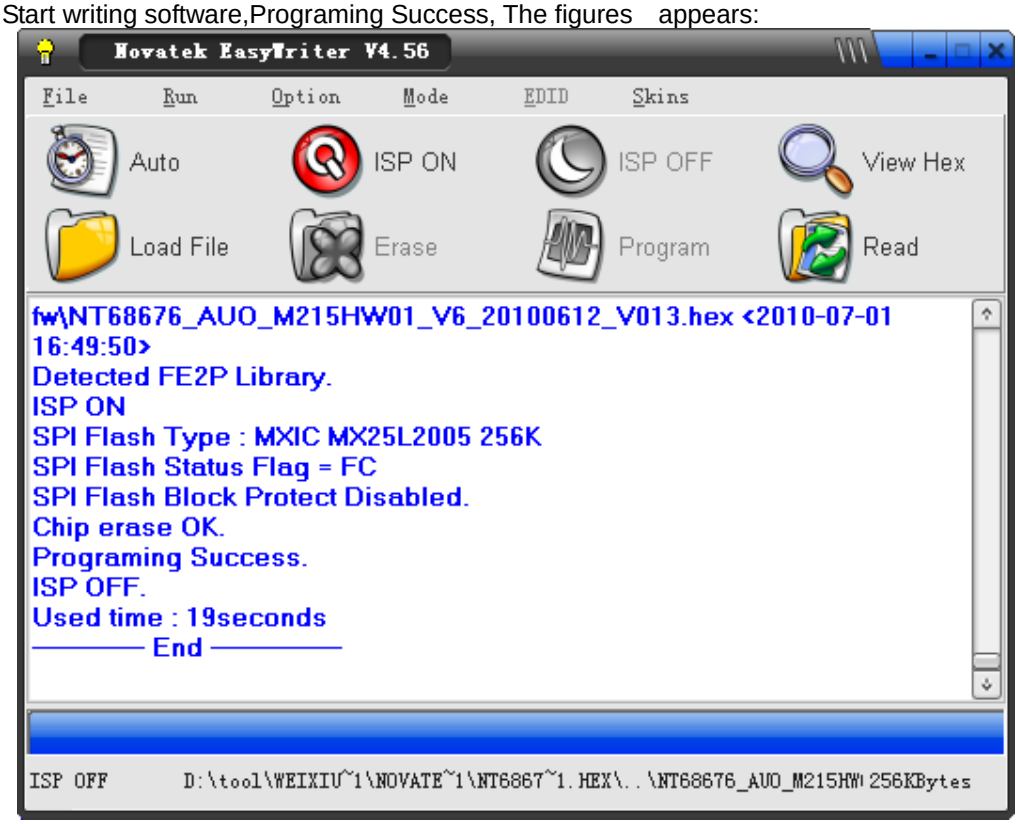




5.Click “Load File”,Open Specific path and software:



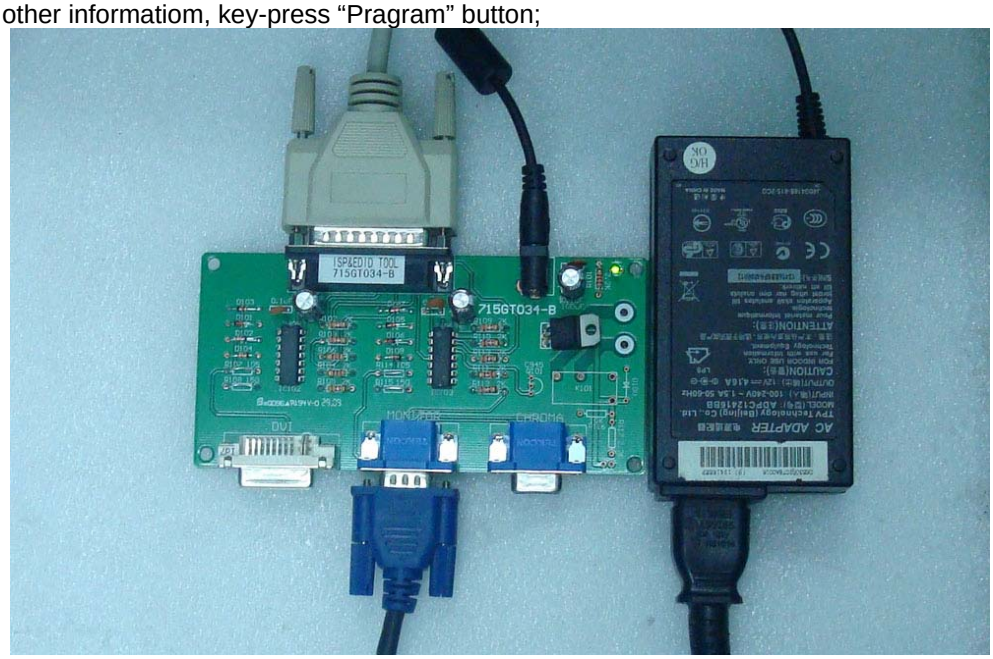
6.Click “Auto”, Start writing software,Programing Success, The figures appears:

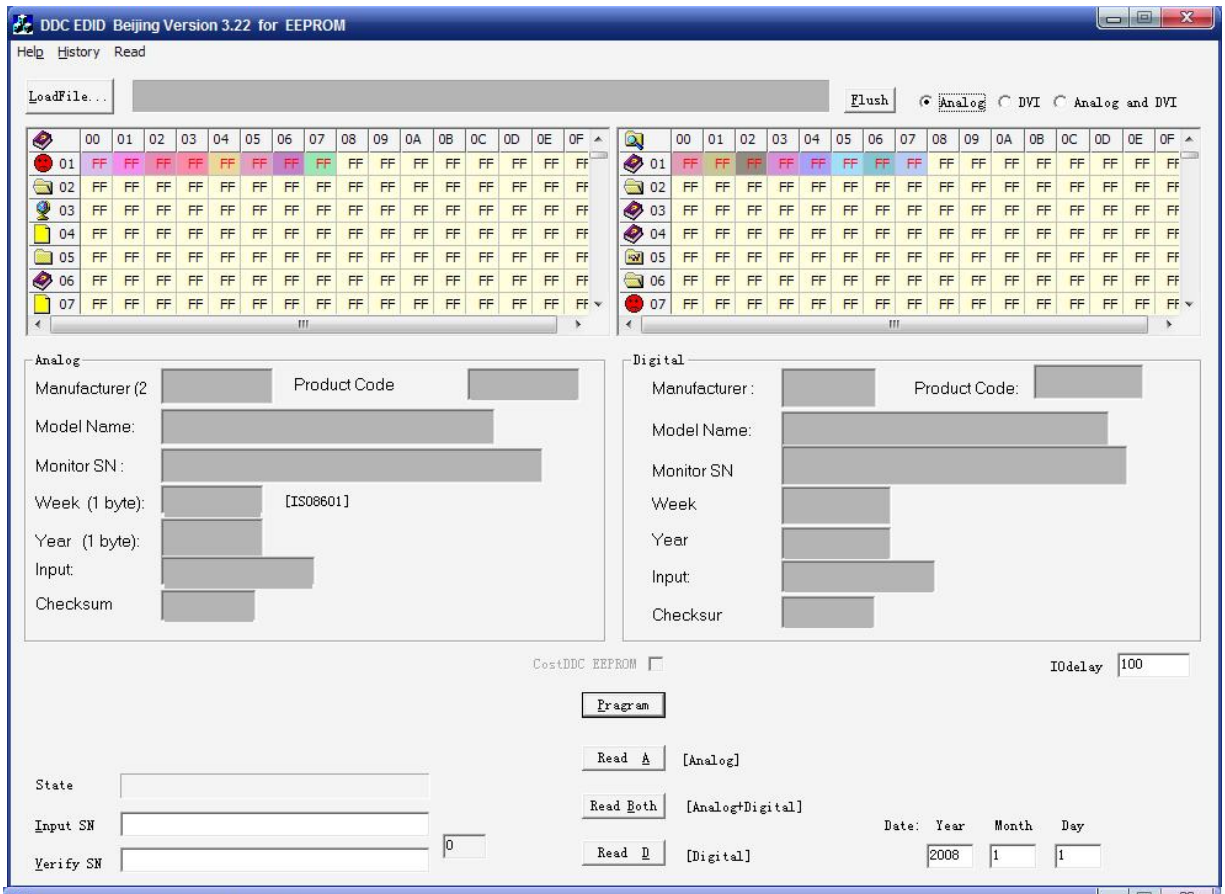


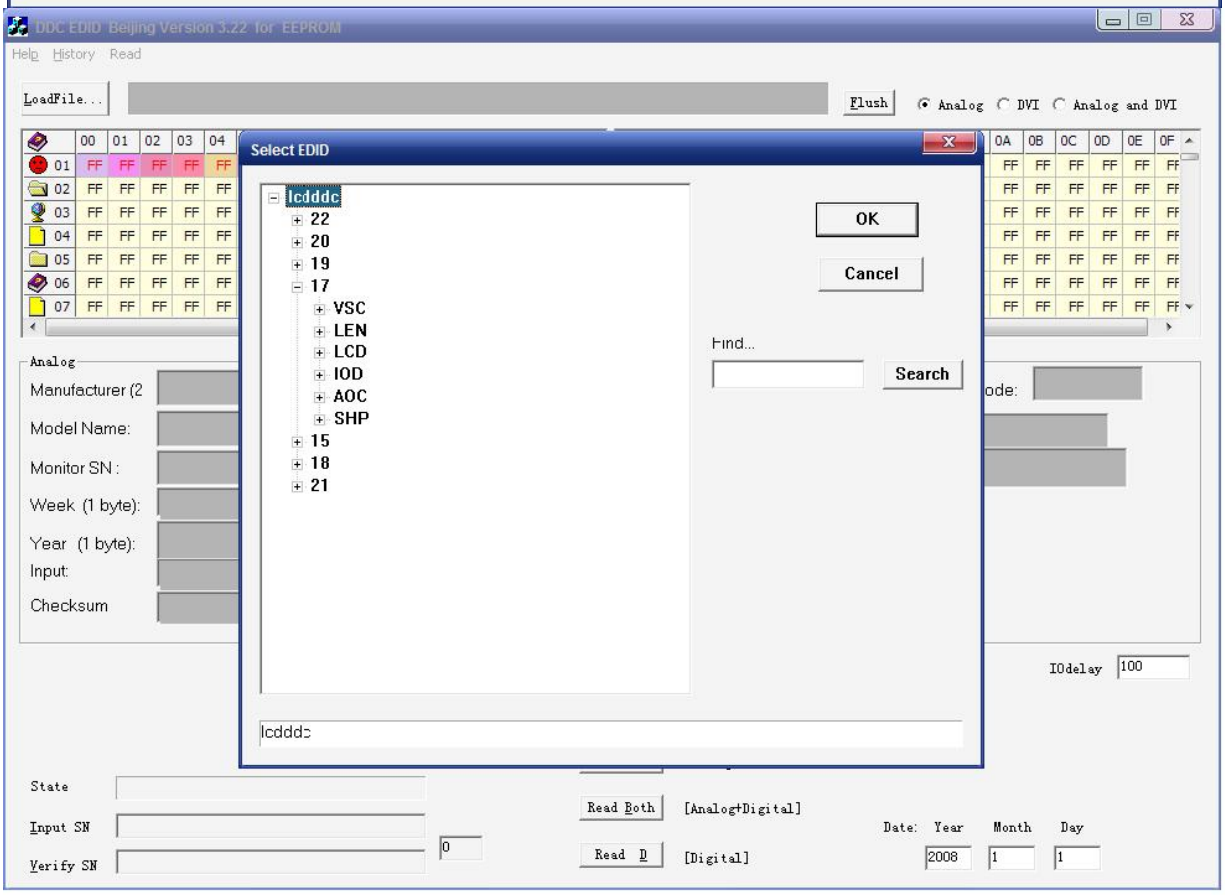
9.4 Writing DDC program step

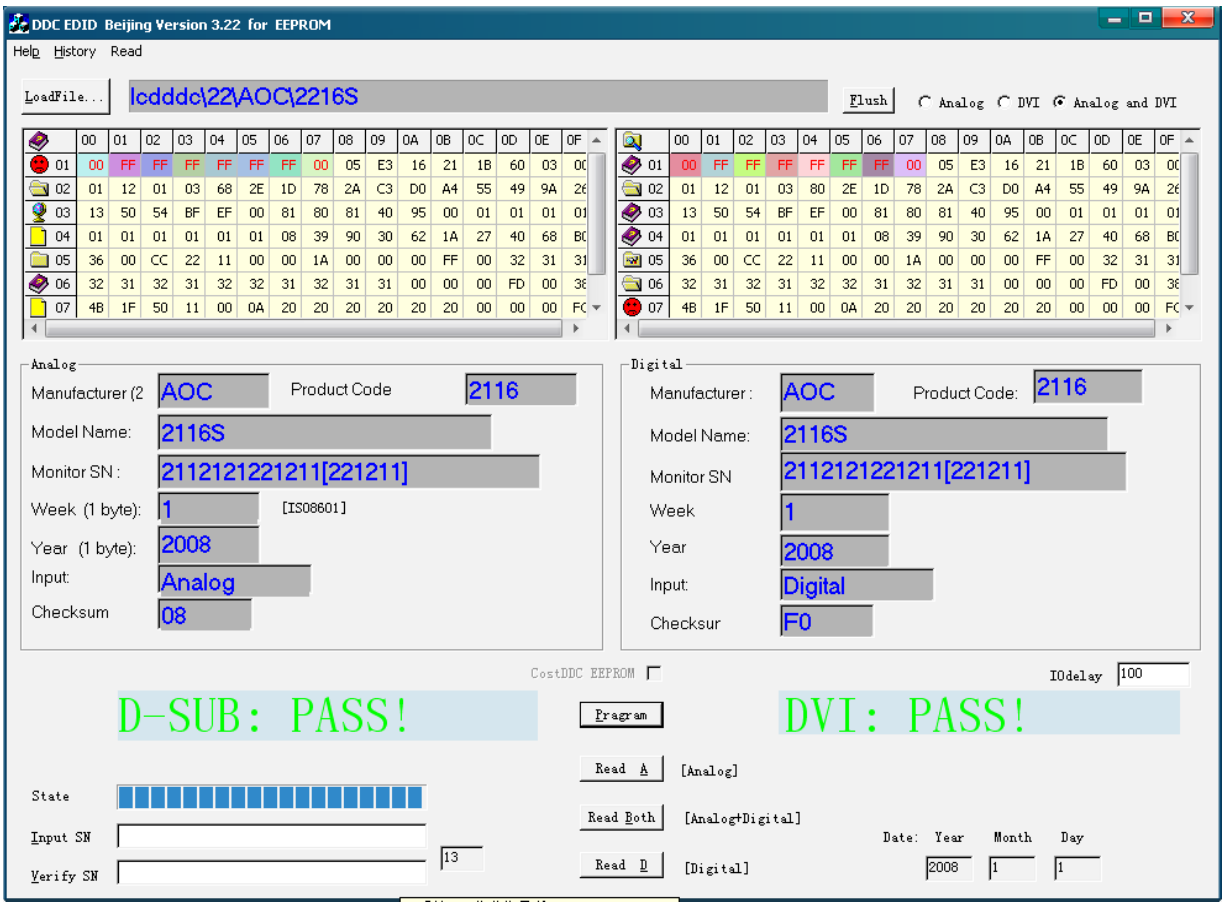
After replacing the Main board and the Panel, Check if white-balance is within the specs ,then re-writing DDC is necessary.

1. Prepared the PC with Windows XP system, DDC recording device (715GT034+12V)for figure below
2. Connect the DDC recording device and the PC through PC parallel port
3. setup “Port95nt” driver program to PC ,
4. select relevant program and run it, below figure will appear
5, Press “LoadFile”, select EDID -model of product, and select input port;
6. key in SN,and other informatiom, key-press “Pragram” button;




DDC EDID Beijing Version 3.22 for EEPROM
Help History Read
LoadFile...
Flush
Analog
DVI
Analog and DVI
Analog
Manufacturer (2
Product Code
Model Name:
Monitor SN :
Week (1 byte):
[ISO8601]
Year (1 byte):
Input:
Checksum
Digital
Manufacturer :
Product Code:
Model Name:
Monitor SN
Week
Year
Input:
Checksur
CostDDC EEPROM
IOdelay
100
Pragram
Read A
[Analog]
Read Both
[Analog+Digital]
Read D
[Digital]
State
Input SN
Verify SN
Date: Year Month Day
2008


DDC EDID Beijing Version 3.22 for EEPROM
Help History Read
LoadFile...
Flush
Analog
DVI
Analog and DVI
Select EDID
lcdddc
22
20
19
17
VSC
LEN
LCD
IOD
AOC
SHP
15
18
21
OK
Cancel
Find...
Search
lcdddc
Analog
Manufacturer (2
Model Name:
Monitor SN :
Week (1 byte):
Year (1 byte):
Input:
Checksum
IOdelay
100
State
Input SN
Verify SN
Read Both
[Analog+Digital]
Read D
[Digital]
Date: Year Month Day
2008



9.5 Factory mode adjustment

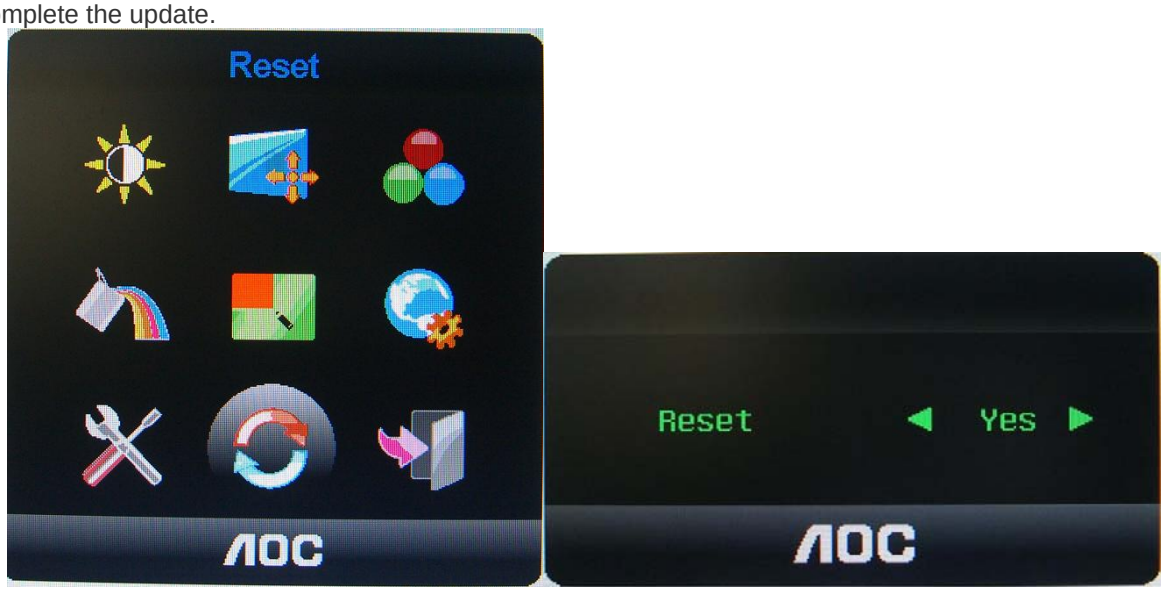
After replacing the Main board and the Panel, Check for enter the Factory mode ,then re-writing DDC is necessary.

Step:

Press MENU button↵ and hold,reinsert the Power cord , then ,press MENU , the monitor will may enter Factory OSD Menu. Then Press ↵. Factory OSD Menu will appear in the screen.

By select this “F” button to enter Factory OSD Menu.”Auto Level”,press “menu”,Auto white balance

Turn off the AC power, Reboot,enter User OSD Menu,Reset.
Exit, Complete the update.



10.BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

10.1 Model：T99ANSNYWVA1NNJ

Location	Part number	Description	Remark
	040G 58160811A	GREEN DOT LABEL	1
	040G 58162461A	EPA LABEL	1
	040G 581689 4A	BARCODE LABEL FOR 1	2
	052G 1211 A	Tasma aluminiowa	1
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm (单导)	2
E08902	089G 725GAA DB	D-SUB CABLE 1500mm	1
E08902	089G 725HAA DB	D-SUB CABLE	2nd source
E08907	089G179J30N521	FFC CABLE 30Pin P1.0 210mm	2nd source
E08901	089G414A15N HL	POWER CORD 1500MM China Reg	1
E08901	089G414A15N IS	POWER CORD 1500MM China Reg	2nd source
E09508	095G8014 6DH52	HARNESS 6P(PLUG)-6P(A1253HA HR) 260	2nd source
E09508	095G8014 6WH52	HARNESS 6P(PLUG)-6P(A1253HA HR) 260	1
	0M1G 130 5120	SCREW	4
	0M1G1030 6120	SCREW 3x6	1
	0M1G1030 6120	SCREW 3x6	3
E750	750GAU190W1707N000	LCD M190PW01 V700 WJ AUO	2nd source
E750	750GAU190W17A7N000	LCD M190PW01 V70A WJ AUO	1
	756GJ9CB AA082	MCU ASSY	
U402	056G1133 90 1	IC PM25LV020-100SCE 2MB SOIC-8 PMC	2nd source
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	2nd source
SMTCR-U402	100GANA9000B21	AOCN941S_NT68168_AUOM190PW01V7_V002	
	AM1G1740 12 47 CR3	SCREW	1
	AM1G1740 12 47 CR3	SCREW	3
	CBPC9NWA1QHJ	CONVERSION G3225-1-2-X-23-100512	1
CN406	033G3802 6B Y	CONN 6PIN 2.0	2nd source
CN406	033G3802 6B Y L	WAFER	1
CN404	033G3802 9B Y	CONNECTOR 9P 2.0	2nd source
CN404	033G3802 9B Y L	CONN 2.0 9P	1
CN403	033G801930F CH L	FFC CONN 1.0mm 30P R/A 34mm 6mm	1
CN403	033G801930F CH JS	FFC CONN 1.0mm 30P R/A 34mm 6.3mm	2nd source
CN101	088G 35315F HJ	D-SUB 15PIN CONNECTOR SBFR151-U02-NP	2nd source
CN101	088G 35315F XH	D-SUB 15PIN VERTICAL CONN WITH SCREW	1
X401	093G 2251B J	CRYSTAL 12MHZ NXS12.000AC30F-KAB10	1
	AIG9NWA1QHJ	MAIN BOARD FOR AI	1
C704	067G 4051014PT	EC 100uF M 25V 6.3*11mm JF CD287	1
C702	067G 4051014PT	EC 100uF M 25V 6.3*11mm JF CD287	1
C449	067G 4051014PT	EC 100uF M 25V 6.3*11mm JF CD287	1
	SMTC9NWA1QHJ	MAIN BOARD FOR SMT	1
	040G 45762420A	LABEL 25x6mm	1
U401	056G 562325	SCALER NT68168AFG LQFP-64	1
U701	056G 563 47	IC AME8815BEGT330Z SOT-223 BY AME	2nd source
U701	056G 563224	LDO AP2114H-3.3TRG1 1A 3.3V SOT-223	1
U102	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U103	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U101	056G1133 34	EEPROM M24C02-WMN6TP 2Kb SO-8	1

U402	056G1133 90 1	IC PM25LV020-100SCE 2MB SOIC-8 PMC	2nd source
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	1
Q408	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	2nd source
Q407	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	2nd source
Q404	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	2nd source
Q406	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	2nd source
Q404	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q406	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q407	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1
Q408	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1
Q405	057G 763940	MOSFET AO3401A SOT-23	1
R122	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R411	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R416	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R429	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R467	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R470	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	2nd source
R702	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R470	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R467	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R429	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R416	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R411	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R122	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R102	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R103	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R104	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R108	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R110	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R111	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R113	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R114	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R705	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R452	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R451	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R450	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R449	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R405	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R117	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R115	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	2nd source
R117	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R405	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R449	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R450	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R451	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R452	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R705	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R703	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R708	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R102	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1

R103	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R104	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R108	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R110	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R111	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R113	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R114	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R115	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R419	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	2nd source
R473	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	2nd source
R474	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	2nd source
R419	061G0402102 JY	RST CHIPR 1KOHM +-5% 1/16W YAGEO	1
R473	061G0402102 JY	RST CHIPR 1KOHM +-5% 1/16W YAGEO	1
R474	061G0402102 JY	RST CHIPR 1KOHM +-5% 1/16W YAGEO	1
R118	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	2nd source
R417	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	2nd source
R433	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	2nd source
R471	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	2nd source
R710	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	2nd source
R710	061G0402103 JY	RST CHIPR 10KOHM +-5% 1/16W YAGEO	1
R471	061G0402103 JY	RST CHIPR 10KOHM +-5% 1/16W YAGEO	1
R433	061G0402103 JY	RST CHIPR 10KOHM +-5% 1/16W YAGEO	1
R417	061G0402103 JY	RST CHIPR 10KOHM +-5% 1/16W YAGEO	1
R118	061G0402103 JY	RST CHIPR 10KOHM +-5% 1/16W YAGEO	1
R406	061G0402104 JF	RST CHIPR 100KOHM +-5% 1/16W FENGHUA	2nd source
R406	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R462	061G0402105 JF	RST CHIPR 1MOHM 5% 1/16W FENGHUA	1
R462	061G0402105 JT	RST CHIP R 1Mohm 1/16W +/-5% TZAI YUAN	2nd source
R105	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	1
R106	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	1
R106	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	2nd source
R105	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	2nd source
R468	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R465	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R709	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R414	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R410	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R711	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R435	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R119	061G0402223 JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	1
R468	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R465	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R709	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R414	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R410	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R711	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R435	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R119	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	2nd source
R409	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	1
R409	061G0402224 JY	RST CHIPR 220KOHM +-5% 1/16W YAGEO	2nd source

R466	061G0402331 JF	RST 0402 330R 5% 1/16W	2nd source
R466	061G0402331 JY	RST CHIPR 330 OHM +-5% 1/16W YAGEO	1
R109	061G0402391 JF	RST CHIP 390R 1/16W 5% FENGHUA	2nd source
R109	061G0402391 JT	RST CHIP 390R 1/16W 5% TZAI YUAN	1
R407	061G0402392 JF	RST CHIPR 3.9KOHM +-5% 1/16W FENGHUA	1
R427	061G0402392 JF	RST CHIPR 3.9KOHM +-5% 1/16W FENGHUA	1
R428	061G0402392 JF	RST CHIPR 3.9KOHM +-5% 1/16W FENGHUA	1
R407	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	2nd source
R427	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	2nd source
R428	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	2nd source
R706	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	1
R704	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	2nd source
R415	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	2nd source
R121	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	2nd source
R120	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	2nd source
R120	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R121	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R415	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R704	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R436	061G0402563 JF	RST CHIPR 56KOHM 1/16W FENGHUA	1
R436	061G0402563 JT	RST CHIPR 56KOHM 1/16W TZAI YUAN	2nd source
R107	061G0402750 JY	RST CHIPR 75OHM +-5% 1/16W YAGEO	1
R112	061G0402750 JY	RST CHIPR 75OHM +-5% 1/16W YAGEO	1
R116	061G0402750 JY	RST CHIPR 75OHM +-5% 1/16W YAGEO	1
R101	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	1
R101	061G0603000 JY	RST CHIPR MAX0R05 1/10W YAGEO	2nd source
R469	061G0603102 JF	RST CHIPR 1K OHM +-5% 1/10W FENGHUA	2nd source
R469	061G0603102 JT	RST CHIP 1K 1/10W 5% TZAI YUAN	1
R421	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	1
R434	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	1
R421	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	2nd source
R434	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	2nd source
C106	065G040210232K A	CAP 0402 1NF 10% 50V X7R	1
C106	065G040210232K T	CAP CHIP 0402 1000pF 50V X7R	2nd source
C106	065G040210232K Y	CAP CHIP 0402 1N 50V X7R +/-10%	2nd source
C401	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C409	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C709	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C703	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C701	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C441	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C433	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C431	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C420	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C417	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C416	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C415	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C410	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C407	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C406	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1

C413	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C414	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	1
C401	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C406	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C407	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C409	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C709	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C703	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C701	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C441	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C433	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C431	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C420	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C417	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C416	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C415	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C414	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C413	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C410	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	2nd source
C102	065G040222031J A	CAP 0402 22PF J 50V NPO	1
C102	065G040222031J T	CAP CHIP 0402 22pF J 50V NPO	2nd source
C102	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	2nd source
C408	065G040222415K A	CAP 0402 220NF 10% 16V X5R	2nd source
C408	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	2nd source
C419	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C408	065G040222415K Y	CAP CHIP 0402 220nF 16V X5R	1
C103	065G040233031J A	CAP 0402 33PF 5% 50V NP0	1
C103	065G040233031J Y	CAP CHIP 0402 33P 50V NP0 +/-5%	2nd source
C411	065G040247031J A	CAP 0402 47PF 5% 50V NP0	2nd source
C412	065G040247031J A	CAP 0402 47PF 5% 50V NP0	2nd source
C411	065G040247031J Y	CAP 0402 47PF 5% 50V NP0	1
C412	065G040247031J Y	CAP 0402 47PF 5% 50V NP0	1
C113	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C110	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C109	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C107	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C105	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C101	065G040247312K A	CAP 0402 47NF 10% 16V X7R	1
C101	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C105	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C107	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C109	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C110	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C113	065G040247312K M	MLCC 0402 CAP 0.047uF 16V X7R	2nd source
C444	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	1
C444	065G060310432K Y	CAP 0603 100NF 10% 50V X7R	2nd source
C421	065G060310512K M	CAP 0603 1UF 10% 16V X7R	2nd source
C421	065G060310512K T	CAP 0603 1UF 10% 16V X7R	1
C451	065G060310605M T	CAP 0603 10UF 20% 6.3V X5R	1
C451	065G060310605M Y	NO-SUGGEST CAP 0603 10uF 20% 6.3V X5R	2nd source

C116	065G060322422K T	CAP CHIP0603 220NF K 25V X7R	1
C116	065G060322422K Y	CAP 0603 220N 25V X7R 10%	2nd source
C439	065G060322515K T	CAP 0603 2.2UF 10% 16V X5R	1
C443	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C442	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C430	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
FB404	071G 56K121	HF CHIP BEAD 0805 120R 25%	2nd source
FB408	071G 56K121	HF CHIP BEAD 0805 120R 25%	2nd source
FB404	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB408	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB405	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source
FB407	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source
FB407	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB405	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB407	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	2nd source
FB405	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	2nd source
FB101	071G 59K190 M	CHIP BEAD 0603 19R/500mA	1
FB102	071G 59K190 M	CHIP BEAD 0603 19R/500mA	1
FB103	071G 59K190 M	CHIP BEAD 0603 19R/500mA	1
FB103	071G 59K190 TA	CHIP BEAD 0603 19R 25% FCB1608KF-190T05	2nd source
FB102	071G 59K190 TA	CHIP BEAD 0603 19R 25% FCB1608KF-190T05	2nd source
FB101	071G 59K190 TA	CHIP BEAD 0603 19R 25% FCB1608KF-190T05	2nd source
D101	093G 64 42 L	DIODE LBAV70LT1G SOT-23 LRC	1
D101	093G 64 42 P	BAV70 SOT23 BY PAN JIT	2nd source
ZD104	093G 39GA01 T	RLZ5.6B	1
ZD103	093G 39GA01 T	RLZ5.6B	1
	J33G8B42 1 1C9073	KEY PAD	1
	SMTKEPCAJA9	key board for smt	1
CN001	033G8032 6F X	WAFER 6P 1.25MM	1
CN001	033G8032 6F HR	CONNECTOR 6P 1.25	2nd source
R003	061G0603000 FT	NO-SUGGEST 0.01r MAX 1/10W TZAI YUAN	2nd source
R003	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	1
R005	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R005	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R004	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
R002	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
R002	061G06032001FT	RST CHIP R 2Kohm 1/10W +/-1%	2nd source
R004	061G06032001FT	RST CHIP R 2Kohm 1/10W +/-1%	2nd source
LED01	081G 14501 GP	LED GPTD1210YGC3-HB	1
E715	715G4007K01000004F	KEY PCB FR4 DS 106.5X14.5MM T1.6MM	1
E715	715G4007K01000004L	KEY PCB FR-4 106.5X14.5MM T1.6MM	2nd source
	P40GD000813 9A	FAMILY SHEET	1
	PWPC921GA3J	POWER G2892-4-2-X-25-100824(L)	1
GND1	009G6005 1	GND TERMINAL	1
CN801	033G8021 2E F	CONNECTOR	2nd source
CN802	033G8021 2E F	CONNECTOR	2nd source
CN801	033G8021 2E L	INVERT CONN 3.5mm 2P	1
CN802	033G8021 2E L	INVERT CONN 3.5mm 2P	1
CN801	033G8021 2E XY	CONNECTOR	2nd source
CN802	033G8021 2E XY	CONNECTOR	2nd source

U902	056G 139 10	IC TLP781F photocoupler DIP-4	2nd source
U902	056G 139 3A	PC123Y22FZOF SHARP	1
NR901	061G 58120MEN	RST NTCR 12OHM +-20% 4A	1
NR901	061G 58120MEX	RST NTCR 12OHM +/-20% 4A XINGSHUN	2nd source
C908	063G 10747410V	NO-SUGGEST 0.47UF 275VAC ARCO	2nd source
C908	063G107K474 6S	0.47UF +-10%	1
C908	063G107K474 US	NO-SUGGEST 0.47uF +-10%	2nd source
C937	065G 2M103 3B	0.01uF 2KV 20% Y5U	1
C903	065G306M1022BP	CAP Y1 1NF 20% 250V Y5U	1
C902	065G306M1022BP	CAP Y1 1NF 20% 250V Y5U	1
C900	065G306M2222BP	CAP Y1 2.2NF 20% 250V Y5P	1
C907	067G 40Z10115K	CAP 105C 100UF M 450V	1
C907	067G 40Z10115L	EC 100uF 450V M 18*35.5mm	2nd source
C907	067G 40Z10115X	EC 100UF 20% 450V 18*36	2nd source
C920	067G215P1023XV	EC 1000UF 20% 16V 10*20	2nd source
C925	067G215P1023XV	EC 1000UF 20% 16V 10*20	2nd source
C802	067G215P1024XV	CAP 105C 1000UF M 25V	2nd source
C925	067G215S1023KV	EC 1000UF 20% 16V 10*20	1
C920	067G215S1023KV	EC 1000UF 20% 16V 10*20	1
C925	067G215S1023LV	LOW ESR EC 1000uF 16V M 10*20mm	2nd source
C920	067G215S1023LV	LOW ESR EC 1000uF 16V M 10*20mm	2nd source
C802	067G215S1024KV	EC 1000UF 20% 25V 12.5*20	1
C802	067G215S1024LV	LOW ESR EC 1000uF 25V M 12.5*20mm	2nd source
C922	067G215S4713KV	EC 470UF 20% 16V 10X13	1
C922	067G215S4713LV	LOW ESR EC 470uF 16V M 10*12.5mm	2nd source
L901	073G 174 65 H2	LINE FILTER 30mH MIN	2nd source
L901	073G 174 65 S2	LINE FILTER 30mH MIN	1
L906	073G 253191 H	IND CHOKE 1.1uH DADON	1
L906	073G 253191 S	IND CHOKE 1.1uH	2nd source
T901	080GL17T 47 H	X'FMR 600uH	2nd source
T901	080GL17T 47 L	X'FMR 600uH PT-011130	2nd source
T901	080GL17T 47 N	X'FMR 600uH YUVA-1080	1
T801	080GL19T 40 H	X'FMR INVERTER 128uH	2nd source
T801	080GL19T 40 DN	X'FMR INVERTER 128uH	1
CN901	087G 501 32 S	AC SOCKET ST-01CP-BCE-R	2nd source
CN901	087G 501 32 CJ	AC SOCKET 7P SA-4S-373GP	2nd source
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	1
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	1
BD901	093G 50460502	BRIDGE KBP206G C2	2nd source
D902	093G 60322	SCHOTTKY SR5150-MK23 5A 150V D0-27	2nd source
D902	093G 60335	DIODE SR515 5A/150V DO-201AD	1
CN902	095G 825 9W518	HARNESS 9P-9P 120MM	2nd source
CN902	095G 825 9X518	HARNESS 9P(SCN)-9P(PLUG) 120MM	1
	705GJ893027	D906 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	1
HS3	090G6084 1	HEAT SINK	1
D906	093G 52 63	DIODE FCQS10A065 10A/65V TO-220	2nd source
D906	093G 60251	FCQ10U06	2nd source
D906	093G 60526	SCHOTTKY MBRF1060CT ITO-220AB	1
D906	093G1506 2	SCHOTTKY FMW-2156 15A 60V TO-220	2nd source

	0M1G 930 6120	SCREW 3x6	1
	705GJB57021	Q901 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	1
Q901	057G 667 52	FET 2SK4100LS-T 7A/650V TO-220FI(LS)	2nd source
Q901	057G 667 56	MOSFET 7A/650V FMA07N65GX TO-220F	1
Q901	057G 724 11	MOSFET STP9NK65ZFP 6.4A 650V TO-220FP	2nd source
HS1	090G6064 1	HEAT SINK	1
	0M1G 930 8120	SCREW 3x8	1
	H40G 45762429A	LABEL	2
	PW921GA3SMTJ	POWER BOARD FOR SMT	1
U801	056G 379149	IC AZ494CMTR-E1 SOIC-16	1
U901	056G 379529	AC/DC CONVERTER IC LD7576AGR SOP-7	1
Q810	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1
Q809	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1
Q808	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1
Q805	057G 417 16 T	SMALLTRAN MMBT2907A -0.6A -60V SOT-23	2nd source
Q807	057G 417 16 T	SMALLTRAN MMBT2907A -0.6A -60V SOT-23	2nd source
Q801	057G 417511	MMBT3904	1
Q813	057G 417511	MMBT3904	1
Q808	057G 417511	MMBT3904	2nd source
Q809	057G 417511	MMBT3904	2nd source
Q810	057G 417511	MMBT3904	2nd source
Q805	057G 417512	MMBT3906	1
Q807	057G 417512	MMBT3906	1
Q805	057G 417519	TRA MMBT2907A	2nd source
Q807	057G 417519	TRA MMBT2907A	2nd source
Q806	057G 759 2	RK7002FD5T116 SOT-23 BY ROHM	2nd source
Q811	057G 759 2	RK7002FD5T116 SOT-23 BY ROHM	2nd source
Q802	057G 760 4	DTA144WKA BY ROHM SMT	2nd source
Q802	057G 760 4A	DTA144WN3/S SOT-23	1
Q804	057G 760 5A	DTC 144WN3/S SOT-23	1
Q813	057G 761 18 T	TEST ONLY SST2222A 0.4 60 SMT3	2nd source
Q801	057G 761 18 T	TEST ONLY SST2222A 0.4 60 SMT3	2nd source
Q803	057G 763 92	FET P8008HV 4A/80V SOP-8	1
Q803	057G 763103	FET P9008HV 5A/80V SOP-8	2nd source
Q803	057G 763104	FET AO4830L 5A/80V SOIC-8	2nd source
Q811	057G 763511	MOSFET SRK7002LT1G SOT-23 LRC	1
Q806	057G 763511	MOSFET SRK7002LT1G SOT-23 LRC	1
R809	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	1
R801	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	1
R843	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	1
R843	061G0603000 JY	RST CHIPR MAX0R05 1/10W YAGEO	2nd source
R809	061G0603000 JY	RST CHIPR MAX0R05 1/10W YAGEO	2nd source
R801	061G0603000 JY	RST CHIPR MAX0R05 1/10W YAGEO	2nd source
R928	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R802	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R804	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R907	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R920	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R804	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source

R802	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R928	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R920	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R907	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R807	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R818	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R831	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R832	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R835	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R840	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R918	061G06031002FT	RST CHIP 10K 1/10W 1%	1
R918	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R840	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R835	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R832	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R831	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R818	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R807	061G06031002FY	RST CHIPR 10KOHM +-1% 1/10W YAGEO	2nd source
R826	061G06031003FF	RST CHIPR 100KOHM +-1% 1/10W FENGHUA	1
R820	061G0603133 2F	RST CHIPR 0603 13.3 OHM +-1% 1/10W	1
R828	061G06031502FF	RST CHIPR 15KOHM +-1% 1/10W FENGHUA	2nd source
R828	061G06031502FY	RST CHIP 15K 1/10W 1%	1
R822	061G06031503FF	RST CHIPR 150KOHM +-1% 1/10W FENGHUA	1
R822	061G06031503FY	RST CHIPR 150KOHM 1/10W YAGEO	2nd source
R805	061G0603204 JI	RST 0603 200K 5% 1/10W	2nd source
R833	061G0603204 JI	RST 0603 200K 5% 1/10W	2nd source
R833	061G0603204 JT	RST CHIP 200K 1/10W 5% TZAI YUAN	1
R805	061G0603204 JT	RST CHIP 200K 1/10W 5% TZAI YUAN	1
R925	061G06032431FF	RST CHIPR 2.43KOHM +-1% 1/10W FENGHUA	1
R827	061G06032431FF	RST CHIPR 2.43KOHM +-1% 1/10W FENGHUA	1
R812	061G06032431FF	RST CHIPR 2.43KOHM +-1% 1/10W FENGHUA	1
R817	061G06032431FF	RST CHIPR 2.43KOHM +-1% 1/10W FENGHUA	1
R817	061G06032431FT	RST CHIPR 2.43KOHM +-1% 1/10W TZAI YUAN	2nd source
R812	061G06032431FT	RST CHIPR 2.43KOHM +-1% 1/10W TZAI YUAN	2nd source
R925	061G06032431FT	RST CHIPR 2.43KOHM +-1% 1/10W TZAI YUAN	2nd source
R827	061G06032431FT	RST CHIPR 2.43KOHM +-1% 1/10W TZAI YUAN	2nd source
R839	061G0603330 JF	RST CHIP 33R 1/10W 5% FENGHUA	1
R838	061G0603330 JF	RST CHIP 33R 1/10W 5% FENGHUA	1
R803	061G0603330 JF	RST CHIP 33R 1/10W 5% FENGHUA	1
R811	061G0603330 JF	RST CHIP 33R 1/10W 5% FENGHUA	1
R839	061G0603330 JI	TEST ONLY RST 0603 33R 5% 1/16W TA-I	2nd source
R838	061G0603330 JI	TEST ONLY RST 0603 33R 5% 1/16W TA-I	2nd source
R811	061G0603330 JY	RST CHIPR 33 OHM 1/10W YAGEO	2nd source
R803	061G0603330 JY	RST CHIPR 33 OHM 1/10W YAGEO	2nd source
R810	061G06033601FF	RST CHIPR 3.6K OHM +-1% 1/10W FENGHUA	1
R916	061G0603365 1F	RST CHIPR 3.65 KOHM +-1% 1/10W	1
R834	061G06034702FF	RST CHIPR 47KOHM +-1% 1/10W FENGHUA	1

R834	061G06034702FT	RST CHIP 47K 1/10W 1%	2nd source
R905	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	1
R905	061G0603471 JY	RST CHIPR 470 OHM 5% 1/10W YAGEO	2nd source
R821	061G0603474 JF	RST CHIPR 470KOHM +-5% 1/10W FENGHUA	1
R819	061G0603474 JF	RST CHIPR 470KOHM +-5% 1/10W FENGHUA	1
R821	061G0603474 JT	RST CHIPR 470KOHM +-5% 1/10W TZAI YUAN	2nd source
R819	061G0603474 JT	RST CHIPR 470KOHM +-5% 1/10W TZAI YUAN	2nd source
R824	061G0603683 JF	RST CHIPR 68KOHM +-5% 1/10W FENGHUA	2nd source
R814	061G0603683 JF	RST CHIPR 68KOHM +-5% 1/10W FENGHUA	2nd source
R815	061G0603683 JF	RST CHIPR 68KOHM +-5% 1/10W FENGHUA	2nd source
R814	061G0603683 JY	RST CHIPR 68KOHM +-5% 1/10W YAGEO	1
R815	061G0603683 JY	RST CHIPR 68KOHM +-5% 1/10W YAGEO	1
R824	061G0603683 JY	RST CHIPR 68KOHM +-5% 1/10W YAGEO	1
R806	061G06037501FF	RST CHIPR 7.5KOHM +-1% 1/10W FENGHUA	1
R919	061G08051500FF	RST CHIPR 150OHM +-1% 1/8W FENGHUA	2nd source
R919	061G08051500FT	RST CHIPR 150OHM +-1% 1/8W TZAIYUAN	1
R842	061G08051501FF	RST CHIPR 1.5KOHM +-1% 1/8W FENGHUA	2nd source
R841	061G08051501FF	RST CHIPR 1.5KOHM +-1% 1/8W FENGHUA	2nd source
R842	061G08051501FT	RST CHIPR 1K5 +-1% 1/8W TZAI YAUN	1
R841	061G08051501FT	RST CHIPR 1K5 +-1% 1/8W TZAI YAUN	1
RJ804	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	2nd source
RJ803	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	2nd source
RJ802	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	2nd source
RJ801	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	2nd source
JR601	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	2nd source
RJ804	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
RJ801	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
RJ802	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
RJ803	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
JR601	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
F801	061G12060004JF	RST CHIPR MAX0R05 4A 1/4W FENGHUA	2nd source
F801	061G12060004JI	RST 1206 MAX 5% 1/4W	1
R917	061G1206100 JF	RST CHIPR 10 OHM +-5% 1/4W FENGHUA	2nd source
R917	061G1206100 JI	RST 1206 10R 5% 1/4W	2nd source
R917	061G1206100 JT	RST CHIPR 10 OHM +-5% 1/4W TZAI YUAN	1
R930	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R929	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R912	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R910	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R909	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R903	061G1206101 JI	RST 1206 100R 5% 1/4W	1
R903	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R909	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R912	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R929	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R930	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	2nd source
R911	061G1206103 JI	RST 1206 10K 5% 1/4W	1
R908	061G1206103 JI	RST 1206 10K 5% 1/4W	1
R911	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	2nd source

R908	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	2nd source
R923	061G1206221 JI	RST 1206 220R 5% 1/4W	1
R923	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	2nd source
R816	061G1206303 JF	RST CHIPR 30KOHM +-5% 1/4W FENGHUA	2nd source
R816	061G1206303 JI	RST 30K OHM 5% 1/4W TA-I	1
R836	061G1206330 JF	RST CHIPR 33 OHM +-5% 1/4W FENGHUA	2nd source
R837	061G1206330 JF	RST CHIPR 33 OHM +-5% 1/4W FENGHUA	2nd source
R837	061G1206330 JI	RST 1206 33R 5% 1/4W	1
R836	061G1206330 JI	RST 1206 33R 5% 1/4W	1
R913	061G1206339 JF	RST CHIPR 3.3 OHM +-5% 1/4W FENGHUA	1
R913	061G1206339 JT	RST CHIPR 3.3 OHM +-5% 1/4W TZAI YUAN	2nd source
R914	061G12064322FI	RST 1206 43.2K 1% 1/4W	2nd source
R914	061G12064322FT	RST CHIPR 43.2K OHM 1/4W +/-1%	1
R902	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R901	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R900	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R902	061G1206624 JI	RST 1206 620K 5% 1/4W	2nd source
R901	061G1206624 JI	RST 1206 620K 5% 1/4W	2nd source
R900	061G1206624 JI	RST 1206 620K 5% 1/4W	2nd source
C923	065G060310232K A	CAP CHIP 0603 1000pF K 50V X7R	2nd source
C923	065G060310232K F	CAP CHIP 0603 1NF K 50V X7R	1
C923	065G060310232K Y	CAP CHIP 0603 1N 50V X7R +/-10%	2nd source
C915	065G060310332K A	CAP 0603 10NF 10% 50V X7R	2nd source
C812	065G060310332K A	CAP 0603 10NF 10% 50V X7R	2nd source
C812	065G060310332K F	CAP CHIP 0603 10NF K 50V X7R	1
C915	065G060310332K F	CAP CHIP 0603 10NF K 50V X7R	1
C926	065G060310432K A	CAP 0603 100NF 10% 50V X7R	1
C811	065G060310432K A	CAP 0603 100NF 10% 50V X7R	1
C912	065G060310432K A	CAP 0603 100NF 10% 50V X7R	1
C924	065G060310432K A	CAP 0603 100NF 10% 50V X7R	1
C912	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	2nd source
C811	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	2nd source
C926	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	2nd source
C924	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	2nd source
C808	065G060322332K A	CAP CHIP 0603 22NF K 50V X7R	1
C808	065G060322332K F	CAP 0603 22NF K 50V X7R	2nd source
C817	065G0603225A5K 3	CAP CHIP 0603 2.2UF K 10V X5R	2nd source
C810	065G0603225A5K 3	CAP CHIP 0603 2.2UF K 10V X5R	2nd source
C817	065G0603225A5K M	CAP MLCC 0603 2.2uF K 10V X5R	1
C810	065G0603225A5K M	CAP MLCC 0603 2.2uF K 10V X5R	1
C810	065G0603225A5K T	CAP 0603 2.2UF 10% 10V X5R	2nd source
C817	065G0603225A5K T	CAP 0603 2.2UF 10% 10V X5R	2nd source
C807	065G060333232K F	CAP CHIP 0603 3.3NF K 50V X7R	1
C807	065G060333232K Y	CAP CHIP 0603 3N3 50V X7R +/-10%	2nd source
C914	065G060347132K F	NO-SUGGEST 0603 470PF K 50V X7R	2nd source
C914	065G060347132K Y	CAP CHIP 0603 470PF K 50V X7R	1
C806	065G080510432K A	CAP CHIP 0805 0.1UF K 50V X7R	2nd source
C806	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C813	065G080515231J F	CAP CHIP 0805 1500PF J 50V NPO	2nd source
C813	065G080515231J Y	CAP 0805 1.5NF 5% 50V NP0	1

C927	065G080547332K A	CAP CHIP 0805 47nF K 50V X7R	2nd source
C927	065G080547332K F	CAP CHIP 0805 47NF K 50V X7R	1
C927	065G080547332K Y	CAP CHIP 0805 47N 50V X7R +/-10%	2nd source
C809	065G080568131G F	CAP CHIP 0805 680PF 50V G NPO	1
C917	065G120610272K F	CAP 1206 1NF 10% 500V X7R	2nd source
C916	065G120610272K F	CAP 1206 1NF 10% 500V X7R	2nd source
C917	065G120610272K Y	CAP 1206 1NF 10% 500V X7R	1
C916	065G120610272K Y	CAP 1206 1NF 10% 500V X7R	1
D805	093G 64 38 D	DIODE BAW56 DIODES	2nd source
D805	093G 64 38 P	BAW56	1
D802	093G 64 42 P	BAV70 SOT23 BY PAN JIT	1
D801	093G 64 42 P	BAV70 SOT23 BY PAN JIT	1
D802	093G 64 42 PP	BAV70 SOT-23	2nd source
D801	093G 64 42 PP	BAV70 SOT-23	2nd source
	PW921GA3AIJ	POWER BOARD FOR AI	1
CN901	006G 31500	EYELET	2
	040G 45762420A	LABEL 25x6mm	1
U903	056G 158 10 T	LDO IC AZ431AZ-AE1 TO-92 150MA 40V TO-92	1
U903	056G 158 12	Shunt Regulator KIA431A-AT/P TO-92	2nd source
Q904	057G 530503 T	2SD1207T	1
Q904	057G 761 16	TRA KTD1028 KEC	2nd source
R904	061G152M10152T	RST MOFR 100OHM +-5% 2WS	1
R906	061G152M10452T	NO-SUGGEST RST MOFR 100KOHM +-5% 2WS	1
R924	061G152M47852T	RST MOFR 0.47 OHM +-5% 2WS	1
C911	065G 2K152 2T6213	CAP CER 1.5NF 10% 2KV Y5P	2nd source
C911	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	1
C803A	065G601K104 2T	CAP JC 0.1UF K 50V X7R	1
C913	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICHI EG	1
C913	067G215Y2207LT	LOW ESR EC 22uF 50V M 5*11mm	2nd source
FB901	071G 55 29	FERRITE BEAD	1
F902	084G 56 4 B	FUSE 4A 250V	1
F901	084G 56 4 B	FUSE 4A 250V	1
ZD901	093G 3916752T	MTZJ T-72 16B	2nd source
ZD901	093G 3954752T	DIODE MTZJ16B SEMTECH	1
D903	093G 6026T52T	CTIFIER DIODE FR107	1
D903	093G 6026W52T	FR107	2nd source
D904	093G 6038P52T	PS102R	2nd source
D904	093G 6038T52T	FR103 AO	1
D804	093G 64 1152T	SWITCHING IN4148 1A 100V DO-35	2nd source
D803	093G 64 1152T	SWITCHING IN4148 1A 100V DO-35	2nd source
D907	093G 64 1152T	SWITCHING IN4148 1A 100V DO-35	2nd source
D803	093G 64 1152T PH	SWITCHING 1N4148 0.2A 100V DO-35	2nd source
D804	093G 64 1152T PH	SWITCHING 1N4148 0.2A 100V DO-35	2nd source
D907	093G 64 1152T PH	SWITCHING 1N4148 0.2A 100V DO-35	2nd source
D907	093G 6451652T	1N4148	1
D804	093G 6451652T	1N4148	1
D803	093G 6451652T	1N4148	1
D907	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	2nd source
D804	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	2nd source
D803	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	2nd source

J811	095G 90 23	JUMPER WIRE	1
J901	095G 90 23	JUMPER WIRE	1
J902	095G 90 23	JUMPER WIRE	1
J903	095G 90 23	JUMPER WIRE	1
J904	095G 90 23	JUMPER WIRE	1
J905	095G 90 23	JUMPER WIRE	1
J906	095G 90 23	JUMPER WIRE	1
J907	095G 90 23	JUMPER WIRE	1
FB902	095G 90 23	JUMPER WIRE	1
J921	095G 90 23	JUMPER WIRE	1
J911	095G 90 23	JUMPER WIRE	1
J910	095G 90 23	JUMPER WIRE	1
J909	095G 90 23	JUMPER WIRE	1
J908	095G 90 23	JUMPER WIRE	1
J810	095G 90 23	JUMPER WIRE	1
J800	095G 90 23	JUMPER WIRE	1
J801	095G 90 23	JUMPER WIRE	1
J802	095G 90 23	JUMPER WIRE	1
J803	095G 90 23	JUMPER WIRE	1
J805	095G 90 23	JUMPER WIRE	1
J806	095G 90 23	JUMPER WIRE	1
J807	095G 90 23	JUMPER WIRE	1
J809	095G 90 23	JUMPER WIRE	1
	715G2892 7 2	PWR PCB FR1 SS 184X122X1.6MM	1
	Q51G 6 4509	GLUE_RTV	2
T901	S80GL17T47V	X'FMR POWER 600uH	2nd source
T801	S80GL19T40V	XFMR POWER 128uH TPV-PT	2nd source
	Q12G6600 6	FOOT	4
	Q52G6025 13155	INSULATING SHEET	1
E08907	S89G179T30N521	FFC CABLE 30P 210mm P1.0MM	1